

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 15460

 ntcgagaaat tcanatgggtc ataacttttc acacggaggt ctgattcagg cacataatat 60
 attgagacgc tcgaaattga acaacggaag ctctcgagaa attcgaaagg tcataacttt 120
 taactcggat gtctgattca agcgcataat atatcgacac gttcgaaatt gaacaatgga 180
 agctcttgag aaattcaaat ggtcataact tttcactcgg aggtcccatt caggtgcatc 240
 atatatcgag atgctcgaaa atgaacaatg gatgctgtcg agaaattcaa atgatcataa 300
 nctttcactt cgagggtccga ttcagggtca tcatatatcg agacgctcga aattgaacac 360
 cgaagggtgt cgagaaattc aaaagggtcat aacttttaac 400

<210> 15461
 <211> 333
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 15461

 agcttgacag tattacaaat ctcaatatac gttgccaagt gtgagtatgg atcttcattt 60
 ggtaaaccat caaacaaact gctctgtatt agctgtatca atgaagggtgg gtaagttaag 120
 ttttgtgcct gaacctatgg ccgcacaaca cttgagatat attgcggcac cgaagtactt 180
 gagtaatctt ccaagggtcac tcattgaggt tgctcttcag ccatgacttc gacttcaaatt 240
 tcttctgttt gagattccct ggatgtangt gaattagaag atgatgactc agaaaagtga 300
 tcctcttcaa ggattgatng ctattgtctg tcg 333

<210> 15462
 <211> 414
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 15462

 tacacaaata ttcattaatc caacacacac tcaacanata atcatcattt gtccatagtt 60
 cctatcaatc atgctcagta tgatgcatgc acctgacctc aactctcana tggaaatgtg 120

<210> 15465
 <211> 341
 <212> DNA
 <213> Glycine max

<400> 15465

agcttctagt ctcaattttg agcgtctcga tatattaccc gattcaatcg gacatccgag 60
 taaaaagtta ttgtcttttg aatttcctac aagcttccgt tttcaatttg caacgtctcg 120
 aatatattac aggactcaac ttgacatccg tgtataaagt tattgtcaat tcaattttct 180
 cagaacttcg gatctaaatt ttgagcgttt cgatatatta caggactcaa tcggacatcc 240
 gagtgaaaag ttattgacac ttgaatttga tacgagcttc cagtttcaat ttggagcatc 300
 tctcgataaa ttacgacact ctgtcaggca tccgagtaaa a 341

<210> 15466
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15466

tctagccaaa tggacttacc ttgaattaat tcctttgata ttccttttga gccttgtttc 60
 cctttccttg ttttgaagct cactacaagc cttaagtga aaaccatgat attaccatat 120
 ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtgaggg gtttttgttt 180
 cattggacaa cttgttttgt tggctatgct tcatgatgta ntttgggcca tacttgatgt 240
 acattgtata ttgggttaaat gttggacatg ctgaatgaaa tgttgtttct canaggctaa 300
 agagtctaan aaaaaaaaaag agaaaaagaa aaagcataaa gttgagtga taagatctta 360
 aatggcacaa gaatgatgaa actctggggn tctactctca tgttaaattn ntaatcttac 420
 tttcttttaa tttttttta 439

<210> 15467
 <211> 322
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15467

agctntgatt tcctttgttc cggaaacctt tcttttctca tgtgcacca aaccaatct 60
 ccgggttcga agacaacctt ctttctccct ttgttggtt gtttagcata gcttttattt 120
 ttctctcaa ttttatcttt gactctctca tgaagcgtct tcacatagtc cgcctttgct 180
 tgaccttctt tatgcttaaa aatagaaaca ttaggcatag gcaaaagatc aagaggagt 240
 agtgggttat aaccataaac aacttcanaa ggagaacaat tagtgggtgct atgaacagct 300
 ctattgtaag ccaattcaac at 322

<210> 15468
 <211> 337
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 15468

tgcttgtgga gcttctatgg aggctggatc tttgagcttc aatgagggtcc ttcaatgggtg 60
 atttttcacc atggagatgc agcggaaggc aaaggagacg aggagagggg aggcaccatc 120
 cactanggaa taagccaagg aagaaagagc ttcaccacca agaattgcct tggataagaa 180
 gcttgaagag gatgctctaa tggaggataa gaaagagaga angtggggagc acgaaattga 240
 aggaataaaa gagggagaga agtggaactt tgaagtgtat ctcataagac tttcattcat 300
 canagttaca acaagtgtta cacatgcttc tatttat 337

<210> 15469
 <211> 358
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 15469

agcttgttca caaaaaatag ggttntgaaa gtttatcatt tcagtttctt accaagtaaa 60
 atggatcatt tttaagggtcc aacgacttaa aatgatcacc tttcaagtaa aaagaatcac 120
 ttgattcacg cataagatag aactacatag gtctgatttc ctctttgatg gagggtagct 180
 aagagcaaaa gccccgcttt tgtcgacctc aaaaaataaa aagaaataaa gttaaggtaa 240
 cacaatttcc acaattctaa aaaataggct gttgtccttc aagacaaacg taagagggtgc 300
 taataccttc ctcaaccgta tatacaactc gcgaacttag aaatttcatt tttgatcg 358

<210> 15470
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15470

tctctgaaag gcatgggttat ttccagtttc ctgganatat ctaagaatct tgccaaatgg 60
 cggtccttct ccttcttgga aggtaccata ggatattgga ctttcgaacc ttcattcaca 120
 gctgtttctc ttttattctc tctagcttgt tcacttctac tctctcttc attcttattt 180
 ttttcatctt tttcaattgt ttcattttct ttttctttat ctaattcttt ctattnttct 240
 tggtcattta attctttttt cttgaccatt atttgntgta tcttttccta atttctttca 300
 cttctcatat catctttctt ttcacagta ccccttcttt tcaatagact ttcttcttgg 360
 atctaact attctcatcc tcttgctcca caaacctctt actncttgtc atcac 415

<210> 15471
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15471

gatgtgcact atattgcact cagctcgccc gggctctttaa tcaactgaagt tcagctttca 60
 ctteggcaaa accttcactt aacccttcac aaagacatct tttccccagg aatcacttaa 120
 actcgctcct gtgacttgct ctccaccgtt taatctaccg aaagcatttg ggaagacct 180
 ccatgagagc ctccgagtcg ccccatctta tgcgattgga ctgtggctct tgattgcaca 240
 attacgtgga ccttaaagat tataatctct tctcgtgtc accccacgca cttgccttat 300
 ggggaccccg gcatcatcaa atgtgtgct caacttagtc aaactatcat gtgggtgtac 360
 atcaggaaca acaatttaac cattcctgca tttgagatca cgtaan 406

<210> 15472
 <211> 81
 <212> DNA
 <213> Glycine max

<400> 15472

ttggcccctg ccggtcttag caccgagctg agcttgaatg attatcaacg tagcgttgat 60
 ttttacaact ccccatTTta g 81

<210> 15473
 <211> 341
 <212> DNA
 <213> Glycine max

<400> 15473
 gagaaatgcc caagagaaac gtccgattga tttttttggt ttattttact aaaagatatt 60
 tttttattat tatattatta ttttacctct tttttgggtt ccaacgtggt tacggcatga 120
 ccgaaccgtc ggatttcatt ttaacagaaa ttaacggata ttacaattca aatgatcggt 180
 ggaaatttat tttatttttt gattaggcga gaaaatgact taagtaaagtg actaaagcac 240
 gtcaaaaggg gatacggaaa gtaaataaaa tgaaaataca agtacgtgag acaagcgggg 300
 accaccaagg tacatagaat gaattgaaaa agctcgattt c 341

<210> 15474
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 15474
 accctcttta atctgtatca tgagatcaaa atcgcatttt tacaaatata tacttaatgt 60
 ctttgctgat aaggggctgt tcataacca acttctctcg aacactgatc tcctttattt 120
 taacgcccgc cacaacatg aaaaactggt atgaaactaa ccatcatttc cagaaaaaac 180
 tatatctatt catttagtta tacacacaag gttaagaact ggtctaaggg gaggttactg 240
 aaaaaacgta aattttcttt cctactaat ga 272

<210> 15475
 <211> 307
 <212> DNA
 <213> Glycine max

<400> 15475
 agatgaacca ctggttgatt atatagcata tgatgaagga cattatagtc ctttcatgta 60
 agttgctggg tgtcctaaac aatttccaaa aattgatgta tataaactag gaggtccaat 120

aaagatttca ttttttaaata tgtaataaat tttaaaaaat ttcacattga tcaaaacctc 180
 tgttgctttt ttttttacca gttggcacga agttcattcg aaagcgggtga ctaatttctc 240
 gttaatgatt cgtgaatata tgatgggttag attaaaaaat atttatctaa ccgtaataat 300
 aaaattg 307

<210> 15476
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15476

anaacgagaa gtaatgcgaa gactaatggg ccgactatc tatatcctat ctcggaagtg 60
 gaactactag ccacccgcct acgaaggatg tggaggccta actggcaact aacacatcgt 120
 gactgggtga ctgacaccaa gacaaacaca tatggcagaa caaaacaccc ccgtcatgga 180
 ccacctggct aatgaccacc gagactgacc aaaaagtcaa acccactcgc actcgaagtg 240
 agaacgcacc caccactgca gataaagcca aatcgacaaa ggcacatatg gacaaaaca 300
 cgctcgtcga accgcaaagg aagcaatccc agctccacgc aacaaaagag ggtcgggaca 360
 caacatgaaa cggggaacct gactagttac accaccagaa aaaaaataaa tggaaaccgg 420
 aacaccgaac ctcgagcggc caacaacca aagggaacaaa acg 463

<210> 15477
 <211> 318
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15477

cacaaacaac acataagccg taaaccagtt tcatgacaat ttaaaaacaa caaaaatata 60
 cttaaaaaaa ataaaaaagc caaaagaaag gtggcagatg ttcaatcaat ggcgttaaat 120
 gatccccctt gctgatttca acaaacagca gtcaagtcaa ctctgataag aaaagtggaa 180
 cagagattta agagaaagag accatactac caccaaataa aaaattggaa cttttttttt 240
 catgtaacat ctcttcatat atttttctaa ttggtatact ttantttact gtgcaatttt 300
 ttttttatca aaatccct 318

<210> 15478
 <211> 587
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 15478

 cgcacacaca caaagtcacg tcgtccagcc accccacacc cgcgacacca aacgcaaaat 60
 agaacntaca anagtannnn tntnnntntg gagcacataa ggaacncagc cngnccccgng 120
 aactctaaag cgacatgcag cagccagcta aacagacagc gtgtggaagg aacaaggcca 180
 gtattatggt gtaaccaaca caagccgcac aaccaaggga gaaaggagac acccccactc 240
 attaccgagg caaacccaat agcagatcaa ccagatccgg tacaagcgac agagctaaag 300
 aagcacggca aaagccaacg aaaaaggagc caacggaaac ccccaaaaca aatgcacagg 360
 cgaacggggc cgcactaatc aatacacgat catagaacag caagataaac caaaggaccg 420
 gacgaacatc ggcgaaagca cccccaaact aacaaagaac caacacaaac aaaaccacc 480
 cacgaaccaa aggcggatag agagaaacaa aacatctacc gaaggagaga aagaacaaca 540
 tcgagcccac aggcaatcag gggaagaaac aggccaacac aaaaacc 587

<210> 15479
 <211> 427
 <212> DNA
 <213> Glycine max

 <400> 15479

 ctgtagaatc tagaattgtc tatttgctat gcagatcgat agtattgcat ttattagtgg 60
 gaatttgatt cttttgacca taaaaatctt ccacagtaag taaaatatgc acggatcatg 120
 tgcaagatca ttttcaatac aaataggaaa ttggagaggt ggaattggtc tatatagcta 180
 tagcattcaa tccagtgate aaagtcactt tcaaaatgta tgtcagattc taattctaaa 240
 gtttctgatt tacagttgga atgccaccta tgaaagtcta atgggggacca acagcccttt 300
 cacctgccaa ttctcttgg agtaagtctt gcattcattg gattgtcacc tctcatatac 360
 acaaggttcg catctatata tctctttaat tattgtcata aagccccact catttaattg 420
 ctatcaa 427

<210> 15480
 <211> 262
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15480

ataaaatata cgctctatTT tttttttacgc tcgagagata gtgagtgtga ctacanacct 60
 agaatacagg actcttcttg agctgcatgt gccattgat atgtgacttt tctaattggcc 120
 ctactcatct cttatctgat tctttttttc actctatagc tgatttttct gacctattcg 180
 tttttacagc aactcagctc tcaaatttaa cttaccacag gggttatatt ggtgggtaat 240
 gactatatat tcatcttttt gc 262

<210> 15481
 <211> 331
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15481

acttggaacc catttctacc aactacaaac cctaagaaaa ctatattatc tacacaaaag 60
 gtacacttct ctatatttgc atagaggggtg tttttcctaa ctactgaaag aactagcttg 120
 agatgtccta aatgatcatc taagctccta ctgtatacta aaatatcatc aaaataaaca 180
 actaccaatc tacctatgaa atcccttaag acattatgca taagcctcat aaaagtgtt 240
 ggtgcattag tgagcccaana aagcatcact agccattcat acaaaccaa cttggtcttg 300
 aaagcggatn tccactcatc accctttttc a 331

<210> 15482
 <211> 223
 <212> DNA
 <213> Glycine max

<400> 15482

gcaccactgc cggatcttac ctggctcact gtacgttgca acgacacttt ttttgccatc 60
 aaaatagcta ccgcaactaa tccgtaaatc catgttcgaa aagcaagagg gacacttccc 120
 aagacctgga gtcgtgtctc ttacgataac tcccttgaca gcaggtgcaa ccctcccca 180
 atttggttcg ttgacttata ctaggcctat aaatgtgaac ttt 223

<210> 15483
 <211> 491
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15483

gccacctgaa cctnatgaga cctgcatacg gccatgatac cacttgtcta attacattgt 60
 gttgtattta tggaggaggt tgtatgtcat tcttgtttta ataatatagt ccacttgga 120
 aaactaactt tccaaatgtt tgccttcaca tgaaatggcc ccgatgaagc ttgccttaaa 180
 gatgtccaag aaagacaacg cagccgaaag aactacttcc gctccggagt atgatagtca 240
 ccgctttaga gtgctgtacc ccagcaccgc ttcaaggcca tcaatggatg gacgattcta 300
 cgggagcgac tcgttcagct tatggaccac gaatatactg atttcagga tgatataagg 360
 cgccagctgt gggcatcact tgatactccc atggccaagt ttgatccaat aaatatccct 420
 tgagttctat accaatgctt tggccaccag aggaccggcg tgcgtgacat gagactcttg 480
 gatacgggcc g 491

<210> 15484
 <211> 491
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15484

atgcacacta tcatgtagn gaccttcag ctctactcc gggatcctct nagtcacctg 60
 cggctgcagc ttgtgcacaa gaaaatggga caccattctt tattctcttc tctaaccaag 120
 cccatacata atggccttatg ggaactccct tcaccgaatg gatgactgag aatttggact 180
 tccttgagaa aagcttgctc catgaaatcc aactgcgaca accaagcctc aaagaaatgc 240
 tagttatacc gtatagangg tgaagactta tttcaagacg ctttcaaca cccttattga 300
 attcctatct aaaacgatct gaatatgtgt atcagatatg ctataggata tgtgaatgac 360
 tcacgggtggc gtcctaacac ccaatgctca ggtggaacta ttgccgatat agaaaaattg 420
 tcaaatggaa aagtgtgaga atgcctatct cgcacgcttc acttgccctcc gaaattctct 480
 catattcccc g 491

<210> 15485
 <211> 481
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15485

caaaacttgtc caagaagaag ctctgatact tatttttata tctataggct cagatatctt 60
 aacaaagggc ggcgtggatt aagatactcg aacttctccc ctaataaaac aacaatcaaa 120
 attcgaccca actaatgaaa ttcctttaac tgccaacgta tcgcaaataca tatattcana 180
 ttggaaacaa ctctgtatat tgcaaaactac agccactcat tcaactacac gagaattaaa 240
 gtgaacaaat acaggacaca ccgctatcat tctggatcgg agcacacctt gtgcctacgt 300
 ccagtccctt agccactccg cttggaaagt accacaacca tggaactgct ttctcacagg 360
 tgtaaacacc caaacgacaa cccattcttt ctgtgtttcc aatatgcatt aacacgagat 420
 gactcacact ctactatctg cttcaagaga atgagaacat aataacagac ataactctcc 480
 g 481

<210> 15486
 <211> 522
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15486

cttgtgcaca ctatgtaggc gacttcagct cgtacccgng atcctctgag tcacctgcgg 60
 catgcaagct atcatganaa gatcatctac ccctatgatt gttgttatcg ctctaacnca 120
 tttcgaaatg attagtgata aaaagttgcc aacttngctc ctgtctaata gatcccttta 180
 cattgggaat tggaggctct catgggcaag ggtcaaagac taataagatg aagcaagcat 240
 tgcatagcct aattctaaag atcaaagaaa taagaagacc caatgtgaac ctaacggttg 300
 caacccantt gggtcacttt cctactaatc gatgaagatg ctttgatgcc aacttgaaga 360
 atcacttctg gaagcccatt tataaaaaac aaccttcacg ggtagtcga caattttggt 420
 gactactaaa ttgggtgac aatataacta gtcaattcct gcacctattt gaatttctac 480
 attcttttgc tgaattctgg gaattgattt tctaccaccc at 522

<210> 15487
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15487

gcctggtgta gaacttgagt taaagagcta ttattggtag ngattatac tnctaactta 60
 tagaagttag tgaaacttag tggtttgta ataactgaac atagtctcgg tggttgagac 120
 gaactagtat aaatttcttg tgtcctatct tctccttttt tatttaaact gacttacagt 180
 tagaatttga cctttacttt agaaaaatta tgtttggttt acaaagatct gaacctatcg 240
 tctgatctat cccacaaaaa tctgatattt gtttcttaag ttctacttca tcaaatgatg 300
 tttttgttgt atttcaagaa gattttaagt ttagtaaaaa tcacaattca cctcattctt 360
 gtgatatata tatatatata tatatatata tatatatata tatatctcta ta 412

<210> 15488
 <211> 134
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15488

cactcactcg taccggatct taagtcactg cggctgcagc ttcacacat tgatgaacgt 60
 gattgtatgc ttgtcagtgn gagacaacgt aaatttctgc gcttctctat ctctgactgg 120
 catcagctctg ctga 134

<210> 15489
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15489

ccatgctagc ataagtgaga caaaagctgg tgcaaatcat aactctgata tctcatgggt 60
 cgaatggatg aatgcatgaa ggaatgcata taacacagat gcaatctagg aatgcaggag 120
 tccagcgaat tcgtccccctt cttagacaca acgtctaagg gtagcaaagt gccgcacgta 180

cgtnntaaga aagcacaccg accctccgtt gggttggttac acaatggatc aagacagaac 240
ccatatgcga tgcctatgca aaagacacaa tgcgagaatg tacacaatat gacaatatc 300
acttgacata cacaaaaagg tatatgatac ttatg 335

<210> 15490
<211> 379
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15490

atztatattg ccttattgca aaatanatta tcataaatat catattgggc cctaaaaaaa 60
gctatagccc ttaactaagt ntgattcgcc tcttattaag ggtaaagnct atctattntt 120
atnccttttg tctcatgtat gaataacaat gattttatat tatatttaca taaagttggt 180
ttctcattgg ccataaccgc ataactatta atgccaaata tactttttga actttatatg 240
aataagtaat aactataatt aactaacttc aaagatgtat caattgggac tagtgccatg 300
aatcaagaat cctttaactg gttgcagggtg aggctttaac caaccaaag cggaggctaa 360
caacaatgag tgaatgttg 379

<210> 15491
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15491

atgctattcg cactcagctc gaccngatct ttagtcactg gggagcacct tacctattcg 60
ccttaccagc ttagaattgg gaatccattc cattcctggt gtccggactc tcagccctta 120
tgatagccgc gatgatccat tacttgtttc cctaagctct ctggnccttc ttaacgcccg 180
aatccatgcc ttgcgaactc tttgaatacc ttgcggtggg cactaaacc gtgcataaag 240
gcgtgagctt tcgttaatgg cgctctctat ggggtaccaa ctgtctatgg caggatggga 300
tatattatac accctttgtc catcangac atttgacatc ctccatgaga tagatttgat 360
cttcttctct acgaggacca ttacaacccc ccatgcacca gagtgggtcaa tcgcttcttt 420
tcaccacaca gacctgtacg taac 444

<210> 15492
 <211> 359
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15492

acttctgctt attgtgacca cattgggtacc tggagatatg tcgcggtggt caggagacct 60
 tggggacggt aggtggggtg ctattgccc aaaccaagct tgaccaatcc cgaccaacc 120
 cgggcatagt cggtcagtga gaacctgtga tgtacctaag cagacgagct cctggcagtc 180
 nacagataaa aggaacaaag accacaaagc aaggaggctt gtggtggctg gccagctgtg 240
 aaacttgatt gatattgtgag atatggtctc tggtaatcga ttaccaaggg tgggtaatcg 300
 attacaaggc ttaanaatga agacaggaga ctaagatggt ctcttgtaat cgattacca 359

<210> 15493
 <211> 207
 <212> DNA
 <213> Glycine max

<400> 15493

tggtcgtcat tgtcaatgcg gaaggattct gcgcttcact atccatgttc acacattatt 60
 gcagcttgtg gttacgtgaa catgaactac taccaatata tagatgttgt tatacaacga 120
 cacatttaaa acttactcgc aaatgggggc tcttggaatg aagtgcatt tcttctctg 180
 atgacgcatg gacacttatt cctgacc 207

<210> 15494
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15494

tagttgatca agaccgaatg aaatatgtgg gccatcatcg atgagttcta taaanagcta 60
 gacctagtag caactcatga gcaaaagcta gaggacaagt acaccaaggt ctgagctctg 120
 caagcaaaaa gggaagcaag ggaaaggtg atcgattcat tgcacagaga agcaatgatg 180
 tggatggaca gattcgcatt tactttgaat gggagtcaag atcttcctg actgctagcc 240

aaggccaaag cattggtaga tgtgtactcg gcccccgagg aaatccacgg gtcctcaat 300
 tattgcgaac acatgatttg attaatggcc tacataatta ngagtcacta aggcaattgt 360
 attgtgcttt gactttggct agatacacc 389

<210> 15495
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15495

tgtccatttt gcactcactc gtaccggatc ttagcactga gtcagcctt tcaggatctg 60
 ggagaaccct cttcttggtta tccctaggaa gggccccctc tccctctcct tgccttctg 120
 ctctcatgtg aaacacattg aggactcttg agctcaagat caccctcata gaactctaca 180
 accagcttcc ttaagtggta tcagaacaca agagcctcag taagtgtcc ttaaactnc 240
 aattattttt tgctttaccc tctcttccat tgggtgttctt cttttttct catgatctcc 300
 tacatgtctt gtctaaatgt tggtacatga ttcttagagt gtcaccgata acctgtata 360
 aactagatng aattttattg gtcaaattct tgtcttgtct tcaacatgat ntgggttaggt 420
 aagttcctta ggatttgctg gg 442

<210> 15496
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15496

catatgtgat aattgactat tntgacacac aaagaactcc taaagtgtcc agatgcaatc 60
 taatcgatta ccacatgtgg taatcgatta tctcaaacca caaagtcttc cttctgctaa 120
 aactagctta tgtaatttat tactaaaact gggaatcgaa taatccgatg attcttgcca 180
 catttcaagt tgaagtgagt tatgttgctt gttctaacac tttgtaattg attactaaac 240
 tttgtaattc gatacattgt gttgaactca ttgcttctaa gaaactttga gaccaattca 300
 ttaatctacc ttggttgctt tctactaagc atgaatataa gagaactaat taccatcat 360
 gcctagtcta naaacatcca atataaatgc cacatctttt aaatctttt tggcattgta 420

<210> 15497
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15497

ttccattgca ccactcgccg gatcttacac tgagctcagc tttcatagtg ctggggccaa 60
 ggcttttttt gcatggccta tccggagaat ttcagacac atctaggctc cctgaatgac 120
 agacaggat ccattttgcc tctccaatag aaacttaaaa ttatttttga cttagggttc 180
 ttgggacaac atccgactct taaatcetta agacttactg cagacttaac tggcccaatg 240
 atagctatct gaaactttga cacctctcng atttgatgac aacttctaataaatgaatgac 300
 cattcctaag tcttcacagt gaggtagtct ctatatgaat atagtgatgc taataaa 357

<210> 15498
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 15498

cgcttgaacc cttcttagac gcatcgata acactcagct ttacagctga atcattcccc 60
 atttgacacc aggtgtgagc cagttctagg gtctctaaaag acagcctcac atgatcaaaa 120
 tgaaagatga cttatccac aaagtccaaa caactggcga tctgcttgat tatagaaaact 180
 gacttagtac caaaaaaata ttttccctgg ctttcttgat caaatgcttg acgctggcag 240
 aagctcattc tattttcgag gctttatgta ttacaattct atgctttgag gacagaaaaa 300
 acatgtcact gcctttgcac tttgctattg aagaagcctt ggctatcatg cccttgacct 360
 tcgcggtatg ctacatttca tgattttaag actgctaata gttatggtga ttctgtg 417

<210> 15499
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15499

ctatccatat gcactcactc gaccgggatc ttaagcacct gcggctgcag cttggcaatc 60
aacacataac ttagcgattt tattntccgt atatatcaaa ctggaattag aacagagctg 120
tagaaaatca atgacgatac ttttcacgat gtccatggat ccgtatatat gcgtgctcgt 180
attgaaacaa atctttgaca atttaacaac atactatgac tgatgtgtga tgggccgata 240
tcctcaagct caattcaaac aaagcttttc aaattcacga cataactttt cggtgggtcat 300
ggtccttata tttagagcct caatgaacta accttacaat tcacgacaaa cttttatcgt 360
tgtccatggc cccacattcg atcgctcgat taaaccgacc ttgtacaaat 410

<210> 15500
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15500

tgcattcgga atagcgaaag cccactcca tcattaggat tattacctga catctcaaac 60
aaacaaatca aacgtaacta gacaattata gttgctgttt gaatacctca cccactcaag 120
tgtatcacac aattatggct tttctctaata gaaacactct tgccttttac cactctaatt 180
ccccttgagt tcttaggcaa ttcaagagat tatggccaca acaaagaaca attcaccaat 240
atgtgtaagg taaggctaga caaggaaaag gttaaccaag aaaaaggcta acaattgttt 300
taggcacaaa tgaaggaaat aaaattcaga atttatgaat tcaagtaaca atccttcatt 360
caaccaatat attaccttaa agagtntttt tttttaagtt ctte 404

<210> 15501
<211> 120
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15501

agcactcagc cgaccgggat ccttaagcac cgcggtgcga gcttgctcgt acgacgtcat 60
gtgaaagagt gatttatattt gacatgccat tgnncaaaat cacctctggc cgagacacat 120

<210> 15502
<211> 485
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15502

cgccccgctg acccccgatt gatgcctttg canaccncca ccttaganac tcagcctgcg 60
atctagcaaa tattagatca gtggtnaaat gatagtatat ttccagcact tatggtcgga 120
attgggtggtc tttttaatta gaacacattt tatgcatatt ttgccatgcc atttaacttt 180
taactggaga atatagaaaa tgcagtttcc ggcagaccat aaaatttcta tanaagtaac 240
atgcatctaa taatntctag cacaatatga aagagtcacc acttaaaacc caaaccgagg 300
gtcaagaata ctaaaataca gcatttacct tcattcaata gacagatgaa agtgcagatc 360
cattagagag agcattggag aaaatattct ttttttaaaa aaaaaaaatt tagactacac 420
aacttaaaga aatagggcag ctaagatacc tcagacatga agcttgctca gttaaatgaa 480
ctccg 485

<210> 15503

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15503

cttgagggtg gatgatagac gaacagcgct aggcatttta tcatgtgtct nncgaataga 60
tttanggtnt gaggatagat gaatattgct anngcatcat tcatgtgact ccgataagat 120
ttgagggtgac gataacgaac aacgctagga aaccaattcg tggggcttca ttactcatgg 180
gtgaggacgc attgaccaa ctatgggaat aaattgatgg gtctccgact aagatttgag 240
ggttgangat agacgaacaa ctttatgcca tcaattcatn gtgttctaga ctccatgggtg 300
gagacgcatg tacagcgctt agcaatcaat tcttgggtct tccgaatatg attcgacggt 360
ggaggatata ccaacaccgc taagcattca ttctgtgggc tccaacctga tgggtggagat 420
tcttgaactg ccttngcatc atttctgggt cg 452

<210> 15504

<211> 470

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 15504

gtagaccccc ttggtttgat cacgctagct antaccngac acttagaata ctacagctttg 60
gtggagctca tggagatgac atttacagaa tggtttcttg aggagagaga ggctgtctaa 120
attcttgttt ctgatgagag aaaaatagct ttctgtccta aataaaaggg tttcctcttt 180
tctattattt aatctactct gcccatgtcc tattgattga aaaaaaatat aggccactt 240
tctttttttg actgtgaccc atcctcagtc acaaaagtga gaaaaattta cctttgaaac 300
gctaaatcct gcctcggttg cgtgccgac tctgattcca gttctcgcgt tctctgcgtc 360
gccggagcca tttttcgaaa gccagcatat atatatcaaa ccttcagaat aaaacccgag 420
cgtggttcaa ggtttggttc gttaatttta agtccacgca aaccatgatt 470

<210> 15505
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15505

ngcccaaaga aaggagccac cgaagaaatg cntatcacct caaaagactg gacaacnggn 60
tgcaaacgac agcggcgccg ctcccacaaa aagcatanag gatcggcacg ccactataag 120
actccccgcc gagacaaaac cagatgcccc ccacaccaaa acaaccttcg gaggagcgga 180
aagaacaaca ccaccgggga cccccggccc caacaacagc ggaaggaggg gaaaaccac 240
atccgaaaag accgacagtg gaaggccact gacgggagaa caacacaccc taaccaccgg 300
cgggagccgc gaagggccaa ccaccaatga ccatggtcta agcgagaggc ctggaaggga 360
actacaccaa aggcggcgag cgccccggtc aaccggaacc aaaccgaaa cacactgcgc 420
accc 424

<210> 15506
<211> 397
<212> DNA
<213> Glycine max

<400> 15506

tcaccctgac tgtgaccctg atcggccta aaccactgtt cagccatctg ggggtaaccc 60

tcttctgcta atcctaagga tgggctccct tttctatctt gcttcgtgct cataaactca 120
 caacaagctt catcaagtgg atatacccaa agctctatac ggctcttaac tactaagctt 180
 gcttacctta cagtctggct aatgtgtaca gatcttaagg cccaataacc tgtaaactg 240
 atttgatgtt atgacaaatt ttgtcttgcc ttgaacatga attgtgtgag tatccgttcc 300
 tctcagttac gtcttggtat tgtttgcggc tgaacctaca caataaaatc ttacacaatt 360
 ataaagaata agaaaacttc atggattcct ttgctcg 397

<210> 15507
 <211> 318
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15507

tgagtgaact aacttacatt tatttgcgta gcgctcactg gccagctttc cagctggaaa 60
 acttgtcttg cagctgcatt aatgaatcgg ccaacgcaa cccctctgtn gtcgctcggg 120
 ctttctacca attatcatgt ttaacagcgt atcgatcgag attttggcct ttcttccgct 180
 tattatccat tattccaggc ttgcaactca gctgttaacg tgcccatanc tgtcttaaatt 240
 aattacgccc ccttccgccc tttccagaac tgggggaata ttaacattct gcaacatgga 300
 acccctcaac gggtatcg 318

<210> 15508
 <211> 126
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15508

ccacagattc tgccttcttc tattttcaga gtgggggatgc ctctaacagc acctctgtca 60
 atgattntct tcatgcctct taagtgcaga tgtccaaatc tttgatgcca tattctgact 120
 tcatct 126

<210> 15509
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 15509

cttgcgaaat gatttctata caaaagt tttataaagc gactaacaga tataaagggt 60
gttataccct tatttcgtct ggggactatc atttgtaat cttttgattc ttgttagtcg 120
acttacagtg ttgaacgcca gttacggtgt gaaacagaaa atcattcagt gttttgatca 180
aaaatgcaaa aaataccaac aaagggaaaa atgggtctttt ccttggtttc cttgacccta 240
gctcgctcan gctagcctct agcttgctg tgccaccgaa taacttcattg gtgaaaaaac 300
caactcgcca gggcgagctc attgcttcag cactaagtnt tagcttgctc gngcaagctg 360
caactgctcc aaagtgaccc tttgcttata aataggcgtt ct 402

<210> 15510
<211> 175
<212> DNA
<213> Glycine max

<400> 15510
acatacttat tgtgacaatc tcagttgagt tatgaaactg ccttgagatt atgtgatatg 60
acctgaacgt taggtcagct ttctatggat ggattattgg cattgcgatg catgatataa 120
tagctatgag ggaggaattg tgttcattgta ttgatattac ggctttgctc tcttg 175

<210> 15511
<211> 276
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15511

ccactggggg ttgtgttggg catctcaaca tggaactttc ctttctgtat gtagaagaat 60
gtcccttttc actctattta tatatctaaa ccgtatatgg ctataattga gaacagcttt 120
tcttcatttc agccaatttc atcactgtgg agctcttgta gtgagatgta tntgtcctgg 180
taataaaaact ctccgcact ctttaagttt tctttgtcaa aaatcaaatt ntaccaatta 240
tgtcaagctc gtaacttatt tgtgctctct gtctat 276

<210> 15512
<211> 505
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15512

aatatgtcga tccacctcta agggcacttc agctcgtaac cgggatcctc tgagtcacct 60
gcagcatgca nngctanagt atgcccagagt cattcatccc tatgagaatg ttgtgaatat 120
tggcgatcag aattgccatt ccttggatta taggggttga ccaagctcat gcctttacaa 180
naaggttcat caagtccagt tgaaatatgg gaagttacca tctttgaaaa ttgggggcaa 240
agatgaatcg agtcacatca ctgcttcgtc tactgcccac catattaaag attggtgatg 300
tcctcgttac ttcccgttca cccttgacaa aaatgcattg accatgctgt aaatctaatt 360
gattaacccc tatcctgcga aaaattccaa taattcactg acatattcga tacatcctgt 420
tttcatgggt gatggtcatt gattcctcct tgaaaataaa taaataaata aaatgactta 480
atattgttta ataaaaaaaa acccg 505

<210> 15513

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15513

ttctttaatg catctcatct aanaccgagt tcgatgggtg tacgagcttt cgatggtagt 60
cngcgggagg tgatatggga aattgacatc cncattcaaa taggccccca cacttgcaat 120
gtgagtttcc aagtgatgga cataaatccc gcctacagat ggtggtcccc tcgatgcttc 180
accagaaact gaaattcgca gttggtggac tcttggtgat agtgtcnggt gaagaagata 240
tgttggttaag ctgccccttc tcgacaccat atgtagaggc agcggaggaa tcattggaaa 300
caactttcca atctttcgag gtggtaagtt gtgcctccgt ggaaacaagc ccattgctac 360
cttgtttctc taatgcagcc ctgatgggtg cgcgggtaat gc 402

<210> 15514

<211> 476

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15514

tgatagaaat	aatactacat	ctttttctaa	tgttttacia	ggtagtaata	tcatacaaaa	60
taactttaga	ccttacactg	aaattgattc	tcatatgtta	aatgaaatgt	ttctaccaat	120
acggaaaatt	catgatgtca	aacttccttt	ttgatattca	ttgtgtccta	catcgtgatt	180
tgcacattac	tgaaaattgc	aaaaggaatc	ggttgactat	aaaagaatga	gtatgtttca	240
aaatacaaaag	tagattaaat	gaagaacaaa	ctttgcttag	atcacaacgg	ttattttcaac	300
aatntctagt	agatggttac	attatgattg	agtcagagag	ggtgtctttt	ataagataca	360
accaatctan	actacgagtg	gacaaatatg	ctaattngga	aaattcagaa	tctaacaatg	420
aaaaccatgg	ttctgata					438

atatatatgg ctaattttaga atttctataa cataatgtta ctttttatga gtttagaaag 60
cttctaaatc catattatta tgaagtnttt ttgtttaaadc tgactcttaa atntaaaatt 120

tattatgagc attatttcta ttttaagagat gatttaatat aatttcgtat tacttgagga 180
 cttattaata ttatatatat tcgataatca aagtttatta tatttatact tcctggatct 240
 ggt 243

<210> 15517
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 15517
 tacccttgtg tgtggcacat gatgtgtgac agtgaatgatt ttatactttg tatttgtgag 60
 aataactagt tcggagggttg atcattttca tggagacctc atggattggc cagcttggat 120
 atgaaaatgc aatccttctt gtgttgttct tcgctacttt tatttatatt ggtgaatgac 180
 ttaaatttta cgtagtttat ctttacaaag ttgtttatgc ttatatgtag gttttgagga 240
 aatttgagtt attatggtgt agtgtgtgtg tgtctatata tatatatcat gtctgtttt 300
 aatttggagt tgggcatttt agcctttggg acttcgaaaa tgcaaaagtt ataagtattc 360
 tataatcaat taattg 376

<210> 15518
 <211> 388
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 15518

attgccatat ggcactcaact cgtcggggtc ttnagcacccg cgctccgcta attgaattca 60
 tgaggaaaag gatttttagtg cttgaaattg aggagaatga gagagtact ttgagtgtgc 120
 tacaagactc tttctcaagg tggacaaggg tccatggtct tttttcccg gctacattc 180
 cctgatctag aggattccag aattccaatc attttactat tcagaattgc ccagctctac 240
 ctattaaata tgccaggctc tacatattct taatcccaaa ataaaaggta cctgtcatgg 300
 aaagattccc cagaatttca gatttccaag gctttctatc ctggaactga gggggactcc 360
 cccctccatc ctagccccag caaatcac 388

<210> 15519

<211> 354
 <212> DNA
 <213> Glycine max

<400> 15519

gcgcataaac ccaccatccc ctagttgcc a cctacaacta agctcaagta ctaccacgta 60
 gcccatatac tcgtgtctct caacaacggg tccccatcaa tcctcccaaa gcttccaaca 120
 tccaagttat tcaacattca cacaacacaa actatcacag ccataaaac agggcaaagg 180
 cagaaaaactc tgcccaaaac accaaccaaa atcacagctt ttctcactta agaccccagt 240
 aacaattctt cgtccaattc gtaaccgggg atcgactcaa aatttactgg aagctctagt 300
 cttaacctaa ttggaccgtg ggactactac aacgtcagac tattctgact actc 354

<210> 15520
 <211> 364
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15520

ttcgcccttg cactcagctc gaccgnatct tgagcaccga gctcagctgt tgattgtgtc 60
 cttaacggac ttgtatgtaa atgctaactc attcagttca acttactgac tgcttggtct 120
 atttatgtca tccctctgaa gatatctgcc ctatctatca aatgttgctg cgcaaactcag 180
 agacagtctc aaagtaagtc tcactatcaa tatatgtcag tctttaagtc agtgactgaa 240
 cagctgagta ctgagattga tcagagactt tccatagtca catgcgtgtg attatgacat 300
 tatttaagat attattctat ggagaaaata tggctattcc gttggtggaa ctgcatgcct 360
 tgac 364

<210> 15521
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15521

nggtaacaag ggccgcacaa ataanatttt acacttgga attaaattca ataattcaat 60
 ccaaaaaaat ccattatcca atggccttggg cggggatacc aactaccaag tccttagaat 120

ccagaagaag aaaaaactcc ttaaaaagat ttatcgggtgg aaatgggaat attatatattt 180
 ttttttcagt ggagaccggg atccccactt tctttttggt ttggggggcca ctggtggagg 240
 cttcttttta tttttcaaga ctatttttta gggcatattg ttaagtgtt ataatccatc 300
 gataccagga ataatgattt ataattttta acaagggtgt aaagagttaa attntaactt 360
 tttgagggat gaaataa 377

<210> 15522
 <211> 195
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15522

cttgaccact gcccggtctt agcactgcgt gcactagatt gtatctttac ttgatttgag 60
 atatttggtg actgtacatt cactttatag tgatgatcat atgtatatgt aaatgattgt 120
 tgctaaatta ggtacctaata cattgaatca cacataacct attaaaaata ggcagccatt 180
 gttgatctna atcaa 195

<210> 15523
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15523

tatgaatctt caaaactcta caaagaaaga gtcaagacct attatgataa aaagttgttg 60
 aagaaagact tcaaaccggg acaacagggtg ctacttttta attcaagatt taaattattt 120
 cctaataagc tgaaatccaa aatgggtctgg accctttgtc atcaacaaag ttcgatctta 180
 tgggtgcaata gagctatatg acccacaatc tcaggaccct gatagagcat gggtagtaaa 240
 tggccagtgg ttgaaactgt aacatgggtga agaagttaac aggcacacaa caccttacat 300
 tttatcaacc attgaggtaa aagcatcaag ctaatgacgt taaagaagcg cttcttggga 360
 ggcaacacag ttctaanttc ttttattctg ttntaatata ttccataatg tggaacttac 420
 ttcataatca tta 433

<210> 15524

<211> 459
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 15524

 tgtgctctct catgtaagcg actncagctc gtacncggga tcctctgagt cacctgagga 60
 tgcacttgca taaagcattg taagataagg ttgctctgtc tgccttgagg acaaccctc 120
 acagtaggca tcataatcga atatgccata ttggagtgtc actggngaag aattcaagat 180
 gatgcatttg tagttgttct aaataagtta gggttaaatc ttttttctta atacctaata 240
 gaatcttagt acattagtta aaaattaaaa aagaatattt tattgtgatg taataatttt 300
 cttataatta aaatctacaa aaaatattat gttgattatt aataaaaaat tacttataaa 360
 tattttttta aaaaatctca aatcaatatt tgactcatca tccaccctta gtnggataat 420
 tctttttttt cctaaattca ccaacaattg ttaattttt 459

<210> 15525
 <211> 312
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 15525

 agatatttaa acaattaaaa aataagtctc cctttaatgg atttctggat ttatagctgt 60
 gtgtgtgggt taagattgtc caaaaatgat aatttataaa gtttttgaag ttctagctag 120
 aactcaatt aaaaaattta cacgattaaa aactcgatta aaaattaata atntaaaaac 180
 ttatttatag aaagttaacc ttaattgaat agtccatcct cgaaccaaac tgatattggg 240
 tagaattgat caactcgatg aattgatata taaatatata tttcatcgag aaaattctac 300
 caaaacaatt tt 312

<210> 15526
 <211> 115
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 15526

 acttatcacc tcaacagatg gcaactgaag acccatcgctc ttatagacct atgagagctg 60

<210> 15529
 <211> 300
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15529

taatagtga tcaattattg ggaggacatg ttgctatgac attaaattna atagccattc 60
 ttgggtgcata tttctaacca tgcttttgat tttgggtgagc taaaaagggtg aatgtgggca 120
 ccaccatact tagttgattg aagcacatga acaaaaaaat tgttgaatgg aagggaatgc 180
 aagaagagtg tgtatgtaac ttgtctttgt gtatacttaa tcttttagtct gaattttctt 240
 ttgttttgag tccttacttt ttttaagtag ctttaactgg ttttagtagtt ttaattagtc 300

<210> 15530
 <211> 487
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15530

gtgatectac ataagcgact tcagctcgta cccgngatcc tctgagtcac ctgcggcatg 60
 cagctgtgct gtntatcana acaactaagt gcgttctact attatatgtg aatcaataac 120
 cagcatagat tcaaagggtac tatgttggct tctaaatagc gccttcntta accgtgcttg 180
 gtgggttgaa cgccacaaag taacaangcc gcatcccgc atattgatnn ttctccccg 240
 gggaaacatg agtggaagga gatcttcac aaggaatcat nccaactctt gatataggct 300
 ttgagggatc aactgggctt taattccac cctctactgg gatcaccacg ctagtcccgt 360
 cacctgagta ctggcttgaa gaatcgccgc tgacggcagg gcacccttat actcaccata 420
 tgttgggtgtg caaaccaccc cgctgtaagg ttcattgatg caaaaaacaa tatgtccagc 480
 ctgctaa 487

<210> 15531
 <211> 302
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 15531

taaagctagt gtctttgtta tatntttat ggatcttggc ttaagagagt aagactcttt 60
ctaccttatg aattagaatt aaaaacactt tttattgatt tattttaaca ttataacatg 120
aatgagatat atatgacaca ttaatgcttg aagagagaga agaatacgtg aaatctattc 180
ctgcaacaac ttctaccatt tgggtgacat ccttatcagt gtggtttctt ggttttaaaa 240
tgacataaaa gcatatactt tgttggttta tcacttgatc tatttggtac ttcacaaaat 300
ca 302

<210> 15532

<211> 156

<212> DNA

<213> Glycine max

<400> 15532

tgcagctaact actactgcct cccactaat tatgtacata aagtttttat gaaatctatt 60
ctatcactaa aactgcttga cacatgagac ttaaagaaga tcgtatccct ttgacttatg 120
tgaccttaag tttagtttag tcttaaaaaa taaaaa 156

<210> 15533

<211> 374

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15533

tgatcatgtc atcaattcga agatgggttat tcagcttctt ttcaaactgn gaaaaaata 60
aaacttatag ctacagacagc tgtataagaa agaagctata tcttgaagtc aacaactggt 120
gatatttaac taaatacata cctgaataat ttttactttg ctcatcgcag gctcaatgac 180
tccggcctcc aagttgtttc tgattatccc ttgcgaaagg tccaaacca tactggggaa 240
aaaagagaaa aataataaca atatttagcg agatggaaaa gaatgcaaaa gcttatcaag 300
catcatttca tatgtattct ccattggtac ttttctctaa tattcattaa catattcaca 360
tgttggaatg atac 374

<210> 15534

<211> 176

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15534

tatgtttctca agactggact aatacatttg ctgcccaagt ntcattggtct ngcaagtgaa 60
gatcctcata atagtgaaat atatctaact tcaaagctta taaatatant tacatgtagc 120
gaatatatat aacacatcac aacacaatta catgttatac ccaatatata tatata 176

<210> 15535
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15535

tataagctnt gagtgggaaa tgatagtgag actcaacttg gataccaacc ttgtgctaca 60
acaattgtag caagacctag tatccataat gagagaaaat tgtttggtta aaaccttgca 120
tcttgtatga aagatgttct ctcttttaggt ttgggttaag tcacaagatt aacttgttgg 180
atcgaatggc ctcagaacaa ttaagaaggg ggggttaaat taattattct taaaccttta 240
ctaattaaaa attactcttt taaggctttt actaaattgt taagagaatg aggactagaa 300
gagaaactta acagaaagta aaagcagaaa tttaatgcac aacggaaagt aaaagagtat 360
ggaaaaatga aacaaacaca caagagtttt tatactgggtt cagcaacaac ccgtgcctac 420
a 421

<210> 15536
<211> 152
<212> DNA
<213> Glycine max

<400> 15536

cactcactcg tccggatcct tagcactgag ctgcgcttga agtattcaat gattttaata 60
acttagagaa gaaagaatat gcttcttaga acaaaagtct ggctcttgat tacatgtaca 120
aaaacttagc tgcttactgt gtatatatct gt 152

<210> 15537
<211> 420

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15537

tattatcata caaaaacttt taacagttac aacttttaaat atttgatttt aaaatcttca 60
aaatagtttg gcacagatag aataatcata atcagttagg atgctccatc acaattaana 120
aagaagactt aatggatgga gcaacgtgaa taacaacaaa ttataaattc aaagatgtgt 180
ttttttgttt cattaaatta gttacaatag tacacttaaa aaaaaagtta caatagtgac 240
taaataccgc caaatttaag gatcaaaatg ttagcttact cattttcttg ataaaaatcg 300
ttgactttta aattgaataa aatattaaat taatggaaga atntgttaaa tntgtttgaa 360
tttgattat ctttacaata gtgattaata taaaatcaag attttataac aatgttttac 420

<210> 15538
<211> 222
<212> DNA
<213> Glycine max

<400> 15538
cctacgcac taacgctatg ccatgggatt cgttaccact tttatccaat ggctgacgcc 60
tacggatgcc tcctaaaaat gccttatctt tcaatctctc cgctccagat atgctagcgt 120
gtgtacccaa tcctacatgg caatactttc actcctatac tgtttgaaat gtataaccga 180
atgagctaga tatactatgt ccaagatcac ctcaatacct at 222

<210> 15539
<211> 324
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15539

tgtattacat cggttttttt ataaccgact tagattcaaa gatgttgaat cacgctnttg 60
tagtagtgct aacatgagct cgtcgttcct tatecttcaa tgtgacttgt atagcaagga 120
tagtcataag cgtaggtctg gtaatctgaa catgggaacc atccttagaa gatgtagggg 180
gaggattggt tgtgaaatga ggtgcgattt ggacagttgg ggtttggttt ttttcttggc 240
cattgttagg gttaggagtt tttgggtctt tgataagaaa agaggttatt ttacaaagag 300

atztatggga gagaggagag agaa

324

<210> 15540
<211> 167
<212> DNA
<213> Glycine max

<400> 15540

ctcgtttgtt aacttttata cccctgtgac tgctaccatt tacttagtca ttctcgttac 60
ttaaataaaa taatttcacg acgttgattg attatcataa cttcgtaaat aattcgaccg 120
tcgcggccga ccacgtggaa atcaaagagt aaaaaaaaaat taatatac 167

<210> 15541
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15541

tcttacatag tccgctnttg ctggaccttt atgcttaaaa atagaaacat tatgcataga 60
caaaagatca agatgagtta gtaggttaaa accataaaca acttcaaaag gagaacaatt 120
agtagtgcta tgaacaactc tattgtaagc aaactcaaca tgtggtaaac aagcttccca 180
agtctttaag ttcttctca aaactgtcct aagcaaagtt cccaatgtcc tattaacaac 240
ttctgtttgc ctatcagttt gtgggtgaca agtgggtgaa aataacaatt tagtgcccaa 300
cttgccccac aaagtctgc aaaaatggct taagaactta gagtccttat cactaacaat 360
gctccttggc aaaccatgga gtctcacaat ctccntgaaa aacaaatcag ccacatggga 420
agcatcatca actntntnac atggaataaa at 452

<210> 15542
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15542

ngcettgttn ggccgcatat gagcaagggt tcgcgaagaa caatggtatg tcntcttacc 60
ggctaatan ggccttttgg cttaacagac ggcaaanaag aatgggtata ccggataccc 120

actccggtat ctccgcccgt cacgtgtctc aaatgtcagt atgacagatc ttgtgagcgc 180
 caaagatgac gttaatcttc gcgtgggtcac gggttngtcg gccgcgattg acgaaagggc 240
 agaagaccat gtcagcctcg catgctatca aggctttcgt ctacagacag gcaaaaagat 300
 tgttataccg ataccactc ggtattctcg ccgtcaccgt gctcaattgt atattgacaa 360
 cttgtggcgc cgagatacgt aatctcccgt gtaacgggct gtcggcgcaa tgctaaggcc 420
 acanacattc agtcttctcg ctttagcgtt t 451

<210> 15543
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 15543

tggcagcatt acaaatctca atatacgttg ccaagtgtga atatggatct tcatttggtta 60
 aaccatgaaa caaattgctc tggtttaact atatcaataa aagggggtaa gttaaatttt 120
 gtgcttgaac ctctaaccgg gtaacacttg aaaaatattg cagcaccgaa atacttgaat 180
 aatcttccaa aggcaactcat cgaggggtgct cttcaatcat tactttggct tcaaattctg 240
 cttgttgaaa atccctggat ataggtgaat taaaagatga tgacacagaa aaatgaacgt 300
 cttcaaggat tgatgcaact tgtttgtcgt gcaaaagctt tctttttctc tctgtggtgg 360
 ttctttct 367

<210> 15544
 <211> 252
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15544

ttgcaccct cgccggtctt agcactcgct ccactattac tatcctgcat caccctattc 60
 tatctatttg cctatgaggt anaactagac ctaactctca tcttctctaa ttcgggagat 120
 acaagaagta ggggtgtctt caaaatgagt tggttctctt gattntctat gccaaaaatg 180
 aagtttgtgt gttaaacata aattggctta aattcctaaa tgagttttta ccaagtttga 240
 taaacaattt aa 252

<210> 15545
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15545

aacatttggg aagtttgtnt accaagaaat gctactctta naacccaaat ggcgtacaac 60
 ctctccaat aaacacaaac atcaatgtaa atttaaaaca aactcatgca catacttcct 120
 tacgaacatt cactcgcaca agatattctt ctaactaaaa aaaatggccc catgcacaat 180
 caaagcacct tcgttaccta gaatatttat atggactttc caggggtatt tgctacctac 240
 atcacatgca ctctcttggc taaatttaca tacatgcata ctcaaagcat cttggctacc 300
 aaaaattgca cacgtgcaca ttcttgtatt tctaatacct atgcatatac aaacttcgng 360
 ataattcttg ctatctacac aa 382

<210> 15546
 <211> 495
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15546

gacctattc gcaactcact gtaccngatc ttaagtcact gcggctgcag cttgctcaag 60
 aggtcacgaa gacaggccgn cgattgacta nntcccggcc ngagtacgac agtcaccgct 120
 ttatgaacgt ngtaaccag cagcgcttcg aagccatcaa gggatggctg tttcttcggg 180
 agcgacgct ccaactcatg gacgacgagt atactgattt tcatgaggaa atanggcgcc 240
 cgctgttggc accaactggg acttccatgg ccagnttga tccagaaata gtccttgagt 300
 tgtacgccc tgctnggcca acagaagaaa gcgtgctga catgatattc ttgggttagg 360
 gtcagtggat ccccttcgat gccgacgctt tcaccagctt ctgggatttc catgggttga 420
 agaaggccag aatgcaattt ggccaaggat gaccggctga tgggttcata agaggcatcc 480
 ccacttgttt ttact 495

<210> 15547
 <211> 355
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15547

ttataagcgc nggtctggga gacaagggtc agtgttcgcg atatgcgaag atgatgttcc 60
gagtattttg gatttggtac gaccatgccc ttctgatttc taactgggaa attggcgagt 120
ggaggaacgc cccggcattt acgcgtcgag cctaattgga acctttacgg ttttaaaagc 180
tctatagttg ggcctacgct ttaaaagttt tccttttggt aaggctttgt gtcttttggt 240
tttgaatcta taatacaagg atctttcttc atctgttccct ggtctctacc cattctcatt 300
catttgcattg tntacttctt tttctgaaac ggcagatccg atgacgagtc ccccg 355

<210> 15548

<211> 240

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15548

acagcagaat ttagtaatga ccactaacc tataattaaa taacttaatg ccattaacct 60
anggaattaa aacacactta atggctgagt gtaactgata ttgtggcaac caaaagtcac 120
ccccaacagc caacaagtca gccaccattt gggctctcaa aaagctgatg cctatgttgc 180
caattgagcc cttattacaa cttgaactaa agccctttta gtgataacct aaacatattt 240

<210> 15549

<211> 226

<212> DNA

<213> Glycine max

<400> 15549

aaataactta aagccattaa cctaaggaat taaaacaaac taaatggcct gatgtcactg 60
aaattggtgg caaccaaag ttaccccaa cagccaacaa gtcagccacc atttggctct 120
ccaaaaagct gatgcctaag ttgccaattg tgcccttatt accacttgaa ctaaagccct 180
tttaagtgat taacccaaaa catatttttg gtcagccaac ttaca 226

<210> 15550

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15550

aatggagaat ngcactangc aatcactacg catatctcct atactcgagg tggangacac 60

atgaacgaaa aacacattca tggggcttcc aacaaaggng tngataatgg agaattacac 120

taagccatca ctacgcatag cttccaactt cgagggtggag gacacatgaa cgaatacgca 180

attcatggtg cttcgaaaga ttgaaatgga gaattcactt cgcatacta cccttgctcc 240

aacgcaaggt ggagaccata acgaaaccca ttctgggctc aaaagattag aatgaaaatg 300

tctancaatc ctctcatatc tcaactcgat gtggagaaca taacaatacc caattatgtg 360

ttcgaaaaat ccaatgagaa tttcttaciaa tccttcctac tccaactgaa ggg 413

<210> 15551

<211> 259

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15551

tgaatagttc gttcaatctg accatctgtn tgaggatgat aagctgaact aagcttcagc 60

tttgttccca aagcttcatg tagacttgtc caaaatcgcg aagtgaacct tggatccctg 120

tcagatacaa tactagaagg aatttcatgc aaccttacta ctttcttgat atacaactcc 180

acgtagcttt ccattctata cctcatattc actgcgataa aatgagcaga tttgggtgagt 240

cgatctacta tgaccaca 259

<210> 15552

<211> 376

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15552

ttgcacctat atggcactca ctgcaccgga tccttagcac tgagctgcgc tgctaaaata 60

gaagacaacg tcattgaaca ttctccaat tgaacctcgt tagacctgca cacacgcttt 120

agctcaagat ggcattctcg gaagaccatn cacttaggac acagttctgc ctcaagagaa 180

tattcccggc gtggctcgtg ttacccatgc cattcaccaa ctatctcatt tatccagctg 240

ccaagagggg caaatcactt gtgagggcatg atctttatcg gtgcctaaca gttctggatt 300
 ccttatgctg agaggccaga ntgcagttgg ccaaaggat cggccatggg ttgttaggag 360
 catccccatt gtggtt 376

<210> 15553
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15553

tctccccaa ttttctatta ataggggtt atgtgaagtg aaaaagggtt cagcccctta 60
 ggcccttctc tctctttcga atttgcttgg aaaaattgtn tccgtgaaga aaattcaagc 120
 cgaggcgctt ccgaaacgtt tctgtaacgt ntccgtgagg aatttcgcga aggttttgac 180
 cggctttcga cgttcttcat tegtcttca cccgtcttcg atcttcaacg ggtaagtacc 240
 tcgaaccaag cttttcgatt cattctatgt acccgtggtg gtccacattg tgtttcgagt 300
 attntattct cgtttcattt actttntata ccccccttg acgtgcttaa ccattttatt 360
 taagtcattt cttgcttaac ctaaaataaa ataaattt 398

<210> 15554
 <211> 90
 <212> DNA
 <213> Glycine max

<400> 15554

aatacttgtc accacttgaa cttaaataac cctatagact catataagtc caatcatata 60
 taatgtctta atttagatat ttctattaac 90

<210> 15555
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15555

cacatgaagt tgtgacagt atgatcttaa actttgtatt tgtgagagta ttctttttgg 60
 aggttgatca tttccatgga gacatcatgg atgggcaagc ttggatatga aaatgcaatc 120

cttcttgtgt tgctcttcgg tacttttatt tatattgttg attgacttac atcttacgta 180
 gggtatcttt acaaagttgt ttatgcttat atgtaggttt tgaggaaatn tgagttatta 240
 tgggtgtagtg tgtgtgtgcc tatatatata tatcatgtca tgttttaa atggagtcgt 300
 gccatttagc ctttgggact tccaatgcaa aaagttataa gtattcta atcaaataat 360
 tgaagagttt aaatgaatta aatgaatgtc ttcacttaat tag 403

<210> 15556
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15556

agcttgtcac tgttatacaa cacactanaa aactagcctt gtatttatta taggatattt 60
 ttaangatag aaactaagaa gaggattctt ggtactataa aaattaaata agtaatttaa 120
 cttaataaaa ttaaataacg tgtaggtaaa cttgattcaa tgtaattatt tatctagatg 180
 caatatcatt ctttaactac ataaaatatt ggattttaat caattattag attagttatt 240
 aactttgttt ggatttttaa cttattttat gacttctaaa attattttta attgaataga 300
 ataaattaac attaagtagc atcttattat ttgataaaac accgttttat tcatttc 357

<210> 15557
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 15557

atcctatcct tgcggagtgg ccagaaagta ttattatgtc atcattccta tcgagtattt 60
 actgattcgt taatttaatt ttatgtatat tgaaagtgtg cttgagttgc gaaagaccat 120
 ctattattcc ttaaatacagt ttacattgg taattcggat tgtatgtgtg ttttggttgc 180
 cctgagccta tatggaattt gtaatcatga ttttgaagat ttgaagttag ataagaaaac 240
 gtgaattgat ttttctttgc ttctatcttg gattattaga tgattatcgg ctcttctgtg 300
 gggatcttgg taacgagggtg aatgatgatg ttctctcaaa gcattttcac cgtttccttt 360
 ctttaacttg gcacgagtaa gtggattcct catctatctc gagttctcat tatgtttagt 420

tatgat

426

<210> 15558
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15558

angattgatg gggacccggt gttgagagaa actangatat gggctacgtg ggagtacgtg 60
agctcagatg gaggtgggca acaggggatg gtgggtttat tgcgcgcctt gtggatgtga 120
aaaacntggt gtgcaccatc gcccgaccgc cacctagtag cacatgtgat gggtagccca 180
tantcctaca agcttgagat gaagaagtgt taagggtgaa acttcttgct ttattgtgac 240
cacgagtgtg cctgagatat gtcnngttgt cagaaactt gggacgtcaa gtgggtgttt 300
tgcccaaaca ncttgaccat ccgaccaccc cgcctattcg gtcatagaac tttatttcct 360
accggaagct ctggcgcaact attaaggaac caaacccaag caggtgtttt gg 412

<210> 15559
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15559

taacatcaga ccacttccag ggtgctagaa ctacttcaca tggactngat ggggcctatg 60
caagttgaaa gccttgaggg aaaaaggatg gcctatgttg ttgtggatga tntctccaga 120
tttacctgcy tcaactttat cagagaaaaa tcagacacct ttgaagtatt caaggagtgt 180
agtctaagac ttcaaagaga aaaagactgt gtcacaaaga gaatcaggag tgaccatggc 240
agagagtntg aaaacagcag gttcactgaa ttctgcacat ctgaaggcat cactcatgag 300
ttctctgcag ccattacacc acaacaaaat ggtatagttg aaaggaaaaa caggactttg 360
caagaagctg ctaagggtcat gctccatgcc anagaacttc cctataatct c 411

<210> 15560
<211> 103
<212> DNA
<213> Glycine max

<400> 15560

actcgccgga tccttagcac tgagctgcac tgatgtccca ttatggtatt tgagaatttg 60
aataatctgt ttatgtatgt gctctaactc tcttggatta gat 103

<210> 15561

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15561

ttgtggattt ggtcttcgcc agtgaaagga tcgatgtggg tctgataaga ggcaaanttg 60
atcactctac taggacgact gagannactg gggcaaata gaagagggtgag aaagaggag 120
aaacccatgt tgtgactgcc attcctatac ggccaagttt cccaccaaac ccaacaatgt 180
cattactcag tcaataacaa acctcctcct taccaccac ccagttatcc acaaaggcca 240
tccttaaate aaccacaaag tctgtctacc gcacttccaa tgacgaacac cacctttagc 300
acaaacaaaa aacaccaacc aagaaagtga atttgacgag agaaagcctg tagaattcac 360
cccaattcca gtgtcctatg ctgacttget cccatatcta ctngataatt caatg 415

<210> 15562

<211> 138

<212> DNA

<213> Glycine max

<400> 15562

tgcatcactc gccgatctt acacgagctc gctttatttt taagacaggc atgagatctt 60
ctgttccttg agagctatgt cttcttcagg aagattttta tgatttcaga ttctagagat 120
cactatctgg aatgactc 138

<210> 15563

<211> 336

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15563

nggcttagcg cgaggataag accgcttagt gaggggtgca aatccggaaa gctataactc 60

tcactaagcc aggcctctggc tggcttagct aaaatgatgc atattaagta cagaggagca 120
 tgcgctaagc tgataaggac tcacttagcg ctcacattgc cgcaaggaat tcaacttagc 180
 ttccatgact ggcgcttagc ttcatggacc tcagttttgg tcgtacggaa tttagcttgg 240
 tgacaatagg tcatgcttag ccaaagataa gctatcactt atcgatcagg ctaaagctta 300
 gctgaattca gatcgaattg aagttggctt agctca 336

<210> 15564
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 15564
 gggcacattg ggccagctgc cggctcttgag cacggaggtg gacttcaggg gttctagaag 60
 gcttagattt ctttctatat gagcatgtga cactgggtga cttgaggatg gaagctatga 120
 gatcctcaag tcactcttcc tcttatctta attggctccc tcttttcttc tctggctctt 180
 cagctttcag tattggggag tctctctggt atctggaggg cgcttacctt tctgctcgtg 240
 ttctgggaaa cctaggtttg actagacacc ctagcccaga ctctcatcct gtacatgtct 300
 ccaacttcta caagggaatt t 321

<210> 15565
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15565
 tatagacact caagctngga gaggatgctt caatggagga naagaaagag agaaggtgtg 60
 agcacgaaat tgaaggaata aaagagggaa agaagtggaa ctttgaagtg tatctcataa 120
 gactttcatt catcaaagtt acaacaagtg ttacacatgc ttctatttat agactaggta 180
 gcttccttga gaagctttct taagaaaact tccttgagaa gcttccttga gaaagcttcc 240
 ttgagaagct agaagtttagc tacacacacc catctaanaa ctaagctcac ctcttgaga 300
 agcttccttg agaagctaga acttacttca cacccttata tagctagctc accctctgac 360
 aaaaacatga aattacaaaa aatc 384

<210> 15566
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15566

gttctccact ccagtacatc tcctaaccat agaattattca ttaataatct tactctcccn 60
 nnnnnnngat tagccttgac cagctgccgg acttaagcac gcgctcacct aaaaatgtat 120
 agtgcatttt tcttcttata ttgccatgaa tattgcatac catacttgca tttccataga 180
 aagaaatatc aattattttac atttgtatca atactaatat accaacaaat gcctttaatt 240
 tatcgaatgt tctccaaaat aaactttaac aaacctttgt gggcggaat aacagacttc 300
 gcgctaagca caccactaca tgtaacttta tgctcgatct gcctctgatc tcaacctagc 360
 ccaattgcaa aacatctttt attttttcaa aaaaacctat t 401

<210> 15567
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 15567

tgaatgaata gatcctcttt tctatcaagc attttatcgc tatgcaatgg gtccctttta 60
 gtccaattaa tcaatattct gtggcagcat tttgttcccc acacggatat tcctctttta 120
 gttactgatg cagaatttcc aaaatgtaca aagcgaaaag atgaatttac tttcgcataa 180
 caaaaaatcc ggaaaaaaaa aaaaactgtg tggacagatt catatatgca caataaaaaac 240
 gacacgtgta gataaaaaca ttataaatcc caaaatcaca aatcaaaatc ataataaaag 300
 ccacaatcat ttgggtgcac gccactgctc gttaacgggt atttattaaa tgacaattat 360
 gaagaaacta aaaatataat t 381

<210> 15568
 <211> 601
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15568

aacaatgaaa ccacacgaac agcacaacat acacctaacc acacctacgg cgaacacaga 60

agtccgccac taacctnnnn nnnnnnnnccgc gcaccatatg agacancnnc cgnnccggga 120
 ccaaaagcaa ccgcagcccc acctaatect gcaacaagaa acaaccgggt ccaagacatt 180
 atgccacaca acgcgatccc ggacagcggg caaaaaggc acacacatga gaacagccgt 240
 ggcccactca ccaacacctc gcgaaccaag acatcaacta ccgaaacaat ataaccaag 300
 aatacgaatc ccaagacaag caaacaagtc ggcgcaacc cgggaaaagc agcccaaagc 360
 gaaccaagt cacacgctaa ccggacctcc cctcaaagt gcccactata agatataaat 420
 aaaaccaag catcccgagc aaaaggacca cacccaaaca tcgcagggga ctacggccgc 480
 aagcacaaaa gatgcatacc gggaacataa aaacaacaac tcacaccct caaaacaac 540
 acaacaaga ggatgaaaca ccagcccg gagagaacac aaccaatac cgccaaacgc 600
 g 601

<210> 15569
 <211> 251
 <212> DNA
 <213> Glycine max

<400> 15569
 tagctataaa caatacttac ttagcttata aggtattaat tattttcata aactagaaaa 60
 tgcattagtc cggacaccta attattggat attcaccata attaagaaat ggtgggtttta 120
 aaattttaaa ggttttataat caagcaatat tggtaactaa ataaaaatat cacacacggc 180
 cattggaaca tcagggtatg cgcgaaaata taacatact gaatatcttg tgcttagata 240
 acatttatta a 251

<210> 15570
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15570
 tcaaactcaa ggcaacactt cctcgggtcca atgtctataa acttaagttc acccttggtg 60
 agcattttct ngttctaagt tccatcttca aaggaaactc angtaacaaa nggtctgtcc 120
 ctgaccatct tctttattcc taagttttat ctgtctagga atacgagtat ttatataacc 180

caanggetgg ccttggtaca gattccttca naaaccacag gtcacccttt ggtcctactt 240
cctgtaaaac ccaagcattc cctaagtcca attacttcca gcgaccatga cgaacaccat 300
caaacgtcta agtccacaac acaactccac caaactatth ggaaagcctt caacaagtgg 360
agtctacttc ttctcaaacc tcaaaaaaaaaa ettccaagta aacgaacatc ccaaatagtg 420
caaacctcat caatccg 437

<210> 15571
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15571

tcaagctggc actatgtatn tgaatataag aatgttagtc ctgtattgta ttatnttcac 60
ttctccatct tatagatatt gccttaatat aaaaaactaa aaagacagga gaaatcactt 120
tctctcttct agctttttaca ttttttatag aaagaaaatg taagaaataa tgattaggag 180
taacatttga attntgagtt cctccaaatg ccataaggaa aatgaaaaca tgaactttcg 240
tggttgcgtg tatagaagac tatatcactt attgctaata ctagctgtat gtaccatgag 300
tcgaatntct attccaagct tcctcctcct ttgacagtat aatataaaat caaagggtgc 360
acagtgcatt aaatcattan gtgggttcatt caataatatt acgatgtacg acttgtaatt 420
ttcctaccgt caagacgggt ctttctcttc ttaaa 455

<210> 15572
<211> 566
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15572

accccatcaa acacatgacc gcaccttacc gccccacga acgcaaccaa ctacacaaaa 60
aacacnnnnn nnaggcacct tgagcaccac cgaccggacc caagcaccgc agctgcagct 120
gcaccactcg ccaaccagca ggtgcttctt cataacaaca gccacggagg atcctctggg 180
ggccaagtgg caaagggtcca tcacaccca tttaacaagc accgcccgtt ttaggagaaa 240
tatttgcac agaacagcaa ctaacaaaaa tcgaaaacaa acaccgctaa ctatccggaa 300

aggcaaccgc accccttgag gagaacagta tacatacctc acctgtgaca ctaccggaaa 360
 ggaatggaac cccacctaata aggaccaacc acgccctcca atacaatncc acgcggaggc 420
 accggaaacc ccacgagaaa gagcaccaat cacattcctc taggtatcca gcgcccaccc 480
 ggaaatcaac aacacgcccc ataatggtcg caacacccac aaagagcata cagaagacgc 540
 agcactcaac aaaggcacag accaaa 566

<210> 15573
 <211> 349
 <212> DNA
 <213> Glycine max

<400> 15573

tcagcaccac tcttaacatt tctgatctaa ctcttttgc aagtggagct gatattgagg 60
 aggaggaact aacacatttg aggggtcaatc ctcttcaacg ggaaggggat gatgcaatcc 120
 tccttaggaa gggaccaatc actagaacca tgagcaagag gctccaagaa gattgggcta 180
 cagctgctga agaatgccat atgggttctca tgaaccttaa ggtagatttt tgaacccatg 240
 gaccaatgat ggggtacaatt atctttgtac atattagact acgaattcat tatactcggt 300
 ccttgatat atgggtccat attgcaagta tgggtgcccta aaatatatg 349

<210> 15574
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15574

gttgatcatat atggacactc actcgtaccg agatctctnc tcacctgagc atcagctgag 60
 tgaaacggaa aacaccttct ctctgtgtga caaagtgtcc tgaattgtcg ggtagaacct 120
 ggactcagtg ggggtatgcca aaccaccttg acatccacca cccggctatc tcatgaaact 180
 ggactactaa cagcgagctc tgcagtcacc attaaaaaca taacctcata catgtgcttg 240
 gtgtggctgc actttgattt gagggtttgg aattggctct gtatcattcc atgggtggtat 300
 cttttctagc taaattgaac aggagtaggg gccctgaatc atacaagggt gatcatccaa 360
 gctaaatgaa cttacttaat gctctgatta cg 392

[illegible][illegible][illegible][illegible][illegible][illegible]

<210> 15577
 <211> 519
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15577

gcatgggagg acgcattgag acctttgatg atgactatag cagcaccgcg cacaanagac 60
 gacgccagca tctagatttc tctgagccc gacaccata ttctaaggat tannctgacc 120
 atnecgagga gcggtcagcg gtcaaattcc aaccttgagg gtctctatac accatgcgcc 180
 ggcattccgac ttacagctga gatgatatga ccatttcgag aggcgataga gatcggtttc 240
 caacgccgac agattcgata caccatacac cgtcacacga cagacaagtg ataagctatg 300
 gacatttgag aaagacgaga gcgtccacat ttcaatcgtc agcgaatata attaccatgg 360
 acccgaatcc gacgtacgag tgaaaagtca tgagatttcg atactctaga gcttccaatg 420
 ttcactggct agcgtataaa tatctcacga gtctggaatc cgacagttca agtgataacc 480
 tatgaacact tgcatacttc acagcttccg atgtatacg 519

<210> 15578
 <211> 540
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15578

acaacgcacc caataagtct gtatgtacaa ctgctctac tataacttct agtagatata 60
 catcataaac tcatatcaat catcaatacn nnnnntnnnt tattgacata ttagcgactt 120
 cactcgaccg ggacctctaa agtcaactgca agatgcagct tttcctgagc ttcaactnta 180
 gccctacggt gtttctatgt tgctcatgtg ctctcctatc tcaataacag ccatctatgg 240
 gcatacttct ttgatgttta caatcctttt tgaatgcttg cacttaaact tgtagagtaa 300
 atcaatgtga cttgactggt gctgaaactc accctaacat tccctaagcga aatgggcccc 360
 caaactgatg accatttaag cctgctcagt aaatgtctga aacaatggaa atacctttat 420
 ttccactgtg tcccttttct aaaacaaacc tgaagattaa aattttttta catcaccaca 480
 accctcatat tcataacact tgggttattga tattttaaaag attcctcccc aaaaaaaga 540

<210> 15579
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15579

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 agtggcgagt gaatatgctc gagtgtacgc ggaaaatgag gctagaggaa gggigattaa 120
 ctcgttacat cgagaggcaa tgatgtggat ggatcgattt gcccttactt tgaacgtgag 180
 tcaagaactt ccccgattgc tggccaaggc caaagcaatg gcagacgcct actctgcccc 240
 caaggagatc cacggactcc tcaactattg taagcatatg atagactaaa tgggctatat 300
 aattaacaac cgctagggag tttggattgt cactcagatc ttgactagat ataactttct 360
 gaataacatg agtttatgcc gcttgtntac ttccaaatca ttgcgaatca aatc 414

<210> 15580
 <211> 101
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15580

gtgtcttang actaacaatg gcttgaatt ctattctach aaaccaatg aattctgtaa 60
 ggggtgaagac attgcangac aacgtactgt acgttatact c 101

<210> 15581
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15581

tctttganag aaaatggagg agaaagtatt ttaatagcat gtggacgtgg aagaggacgt 60
 ggtcgtggcc aatgaagagg aggaagagga gatcgtgata attttgacaa taatgaatgg 120
 aggagccatc aatccactan aagttgtgga agaggaagag aaagaggtag aaacaattat 180
 gataaagcat atgaaaggag gtatgataaa tctaagtgtg aatgttttaa ttgtcataaa 240
 tatggccatt actcttgga gtgtagaaca aatgttgaag agaaggtcaa tcttggtgat 300

gataaagaag ataaagaagt tgaagagcca gcactactac tatchnactta taatgggtgag 360
aaggaagaca aatgcttatg gtatcttgac aatggagcaa gcaatcacat gtgtgggatgc 420
aaagagaaat ntgtggaact tgatgagaat 450

<210> 15582
<211> 486
<212> DNA
<213> Glycine max

<400> 15582
gtgatgctct gatcactatc ttccggcacc tcagctcgga ctccgggatcc tcagagtcac 60
ctgctgcatg cagcttgctg gaaaatgcaa gagaaaatat ctatgtgcat acttgattct 120
aatggtaagc tcttgctgcc tcggaatata tatatatata tatatatacc tatatatata 180
tatctatata tctatatata catatatatt atcgcgacat cacatgtatt ggtccggggtt 240
atggagaaaa tacaacgcca accagataag aattcctcct cttcttcaat ttttttcata 300
aaagcttttg caatgtcctt tagagacaaa aggttgtaa cctccctagt cgctaaaaaa 360
aaaaaaatct ttatttttct gcacgaaact ctacaaaaat aacgcttgcc taaaaagtcg 420
aatacatctt tcaaaggag agtaatcttc ttctcctgtt aaaattactt tcttccacaa 480
acagcc 486

<210> 15583
<211> 208
<212> DNA
<213> Glycine max

<400> 15583
tggaagtgt gggctgctga atgccccaaa gcagcatggt ctctccgca gcagatttct 60
ctcaaccaac catggaccga accttaccat cgtaaggacc caacttcacc attggtgcc 120
ctcgttggtg ttggccatgg agtcctcgct ctctctgtct ctccgattca attgagttta 180
taattagggt ttaataatca atttcctt 208

<210> 15584
<211> 230
<212> DNA
<213> Glycine max

<400> 15584

acctaaacca caaatagaaa tagtcgtagc taatgaccct ctgccaagtt aacatctata 60

aaaataagac ttggcctatg ctgtgagcac acaataactt ttttcttcaa aagtcttatg 120

gctgctatcg gaagcgactg gcaaaaattt attacaccaa gtaagtactt atctggccat 180

aaacccttg agacagtcac aaaaataatg atgacggaaa aaaaactaca 230

<210> 15585

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15585

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attatcctgc tttgatgaat agaaagcctt gggaaaatgg agagaatgag aaagatggag 120

gaacccatgc tgtgactgcc gtttctacat ggccaaattt cccaccagct caacaatatc 180

aaatactcag ctaatatcaa cccttctcat taccaccac cctatcaacc aagaacactc 240

aatcatccgc aaaggccacc cctaaatcag ccacaaagcc tgctgcccgc acatccgata 300

ccaaacacca cctgaacac aaatcanaac actaaccagg gaaggaattt tccagaaaag 360

aagcttgtag aattcacccc aattccaatg tcgtatgcta acttactccc atatctactc 420

aataatgca 429

<210> 15586

<211> 229

<212> DNA

<213> Glycine max

<400> 15586

ctgaataaga tcatttaciaa atatgtcttc tacttaagtg ctacttataa tactacttag 60

gaaatcatat catatatctt atcaagatat acacacctgt cctattatat gacaattctg 120

ctcctacttt ataataacta tacgtaaaat tatacttaga catataacgc ttgtcctatt 180

tgtttttaaa actaaaaccc ataccaattt gtccaagtaa aaatgtcaa 229

<210> 15587

<211> 401

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 15587

tctacaactg gcaaactaag aaactcgtca tcagccgaga tgttgaagtt gatgagtacg 60
 cttcttggaa ttgggatgaa gaaaaagtgg agaagaacgt tcttataccc gctcaactac 120
 cctcagaaga agctgaggaa gaagacccag gtgaaccacc ttcaccttca ccacaacaac 180
 aagatcaaga actatcatca ccaaagtcta ctccaagacg agtaagatct ttggtggaca 240
 tatatgaaac ctgtaacttg gccatacttg aacctggaag ctttgaagaa gcgtaaaga 300
 atgaagtatg ggtctagggc aatggagaag agatacagat gatcgganga aacaacacat 360
 gggangtagt aaatcgcccc catgaanaag atatcattgg g 401

<210> 15588
 <211> 317
 <212> DNA
 <213> Glycine max

<400> 15588
 ctgccggtct tagcactgcg gctacttttg aacctgctgg cttaattttt taaccaactg 60
 ctggaattta ctcgttttta ccgtgattct gaattgattg tgtaacgtta gtccaccttc 120
 ccgtggattg gaatatattg tgaggggaaag gattctaaat atcagtgagt taattctctc 180
 gctttgcgtt gaattttcga catcgagata ttgagattaa gaatgtaaat gtctattatt 240
 gatgtgataa gatgacatta aagaattgat tgattccttt ctgcttttag cttatttatt 300
 aaaatattct atgaatg 317

<210> 15589
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15589

gtatgaatca tttcaattat ctctgctaaa cgtcgatgtt ttacangaag ttccttgga 60
 ttatccattt caaaatgaag ttttcaactt ttttattggc atatagaatt ttctgggtcaa 120
 gcaaagaact tgtgcccatt cctgtgcctg tgtttatatg cacacacaca cctgtgtgtg 180

tgtgtgcgcg cgcgcgcggtg catgcgcgcn agagagagag agagagagag agaattctgt 240
gcttacttca agccaagtaa ctctgcagtc gcccttgaca ccaagaacac cagagctggt 300
ctcatectct tcccaccagc actaaaaatc tgctcagctg cagacatcaa aacaggattn 360
tctgctccaa caatctatca aagaatcttc atcagatata ttaaaagtta ggcaacanaa 420
atctagtcac caccgtttgc aaagcanaag aatctaaaa 459

<210> 15590
<211> 69
<212> DNA
<213> Glycine max

<400> 15590
ctaattctct ttcttggtca tcatcaagta attttttttg tgcttttctt tttttgagcc 60
ttttttttt 69

<210> 15591
<211> 232
<212> DNA
<213> Glycine max

<400> 15591
atgaaactca aggggattct ggtgaaaatg atggagatca gatcgctcct tttgctaggc 60
agctcacgaa cacaccagct aaaaagctta ttaggaagca caccaagaag ttgcagtcta 120
aagcacaaaa agggttgctc taaagtcact tccatgttat tggtttttga ctacttaatt 180
cattatgatt tgtgaataaa ttttaattat ttggataaga ttaaaaaatt ag 232

<210> 15592
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15592

tgtgcacata ttgcgactca ctcggtcccg ggatctctta gtcacctgga ggctgcagcc 60
tgtgcttcat attctgggaa ggtggcctta tggctcttat gactggacct atacatttgc 120
tggccaaggt tcattgtcct gcaagtgaga tcctcttata gtgaatattt ttacttcaag 180

cttttaatta ttacatgtnc cgatataatt acacatccaa caccattaca tgttataccc 240
aatatatata tatatTTTTat attagccaga actatatgaa tatcttctact cttgcaaacg 300
gttaccatta atatctcgat gataatgttt acattattac tggccctgaa gaaacctcta 360
cgatcattat ttgcgggggaa tccgtaccat ttaatgccat tataacgtta actTTTTtttg 420
ccctgaagga ccttatttta attattacgc tgaatcgttc 460

<210> 15593
<211> 325
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15593

agtgggaaat gatagtgaga ctcaacttgt ataccaacct ttgtgctaca acaatggtag 60
ccagacctag tattcataat gagagaaaat tttntgggta aaaccttgca tcttgtatga 120
aagatggtct ctctttaagt ttgggttaag gcacaagatt tacttgttgg atcgagtggc 180
ctcagaacaa ttaagaaggg ggggggtaaat taattattct taaaccttta ctaattaaaa 240
attactcttt taaggctttt actaaattgg taagagaatg aggactanaa gagaaactta 300
acagaaagta aaagcagaaa ttaaa 325

<210> 15594
<211> 273
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15594

ttgaaggcca tttctctctt tgcaacgtac tngctggttaa tctgtctcta tctcataaac 60
ccactcttcc ctaccaatct cctatcactc ttcttctcta attttctactc atctaattac 120
tatttctgac gacaccctat cctatctcac tattcttggg attcttctct tctcttctc 180
ctctcgagcc ctctttctct ctaattgcag tgcgaccaat tgtaaagcta cttggatagt 240
caaccttcac tcaactcgac cctaaaaaaaa aaa 273

<210> 15595
<211> 306
<212> DNA

<213> Glycine max

<400> 15595

gaaagctaac accatccatt agacctacct ctggtggtcc acaaatcact aattatacca 60
gaaccaaccg acattctggt tcaaacagat cataaaggcc aaaagaccaa ccaagacatg 120
caatggccaa aaacagcaga ggcagtatca tactatcatc aattacactc gaagaaattc 180
acagaagacc cacatattca gatccaaact ttacacgact aagaaagaga tcaacctttg 240
caaccaacc atgtcaagat ctaaccaata ccaactcaaa ttataaaaaa ataaaaaaa 300
ccaaga 306

<210> 15596

<211> 421

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15596

tgacnccttg cattgctctg gttatttnnt aatatatata tatatatata tatacggata 60
tatatatata tatatatata tatatatata tatatatata tacataantt tatatttatt 120
tattcataaa taaaaccat agtctttaat attttattct atcgtgaaat atattcatat 180
atztatgaga gaaggcgata atcatatddd tattcgaggt attttatctt aaagagtgag 240
gatatcacat gtttcttgga acgttttact cgctccagca ataatggggg gcaccatctc 300
tggaanaata atcttctcta aaaaactatc cctcttaatg atttctgggg ggaccacct 360
tcatattcaa ctggaaaaa tttcattttt atgaccagg tcttttaact ataagccgtc 420
g 421

<210> 15597

<211> 299

<212> DNA

<213> Glycine max

<400> 15597

tacatagttt ttggttggtg catgaatggg ctcaaaacaa atcattttca aagaagggtc 60
attttttaat cgacctcatt tgtttgaggg tgaacattct tctttttgga aaaaaaaat 120
gaattttttt taaacaaatt atcccagtc atggaatgcc actattaaag gtcctttcat 180

tcctataaac aaataaatgg tgaattagta cctaaagaat gggatgaaat gaatgatgac 240
tagaaaataa aagtgcctaaa tgatcaaaaa gctaaaaaca tttaaacttc tgggtttatc 299

<210> 15598
<211> 341
<212> DNA
<213> Glycine max

<400> 15598

tgtccttttg gcactcactc gtccgggata ttaagcactg agctgcactg tgattgctta 60
cgagaagact tgtgggttaa aagcaatcga ctctgcttgt aatgcaaaaa aaactaggaa 120
tgaaagggaa agtggaaacca tgcgggatgca tcttcaccag ttcccccca catgtatact 180
acataacacc tctctacccc gcctttgaca agcttctaata acccagatgt cccattcatg 240
cacatactac catcaaactt ccagaagatt tgccaaaaaa ctggataccc atccggcctt 300
tactgtctgc cccatagatg ggccaacctg ttgtctatc t 341

<210> 15599
<211> 316
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15599

gacttttcca tatacacctg aacaatatgg tacacctgaa agaaagcata gacattggac 60
aaaaactggt ctactcttg tggcttcagc ttctctttct tgaaattttt ggggagagtc 120
attcaacact gcagctacta taatcaatta tcttccttca cctgccctta acaatatgag 180
tccttttgaa aaattgtttc ataaanaacc agattataaa gtcttgagag tgtttggatg 240
tgtntgtatc ctctattacg accttattaa taacacaaac ttgactttcg gcacacatgt 300
gcctattcat tggat 316

<210> 15600
<211> 203
<212> DNA
<213> Glycine max

<400> 15600

cttttgcac actcgccgga tcttatcac cgctcactac atccaccacc ggctatcttt 60
 taaacgtatg gctaaagcac tctgcgtcac aatatagaca agaccaaca ggagctgttg 120
 gggttgcact ggaacttatg tatatggata tgcttgatc atacaagtgg tatcatacag 180
 gctaaggaac ttacttaatg ctt 203

<210> 15601
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 15601

atggcttatt cctaattgga tggcgctcc tttcacctct tctccttgg cttccgctgc 60
 atctccatgg tgaaaaatct ccattaaagg acctcatttg aactcaaaga tccagccttc 120
 atagaagccc cacaagcaag cttccatcac attcctacac gggcaaattt cccatcagcc 180
 caacaatgtc attactcaac caataacagt cctctcacc caatcatcca taaaagccat 240
 ccccaaatta accacaaggc atgcctgctt accaaatgca caatgccaa acaccaccta 300
 tagcgcaaac caaaaaggaa tttttagca naaaacttgt atgattcacc ccanattccg 360
 gtgtcatatg ctaacttgct cccatatcta cttgataatg caatg 405

<210> 15602
 <211> 750
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 15602

acgcacacca ctgccaccac gaacnacca cctaactgga cactencaca gctacacgca 60
 ccacgacgac gaacgacacc atataacann nnnnnnnnnn ggtgtgaccg atctagcaac 120
 gcnaacnnnn annngnngat acatgcacac cacaagctgc atgcacgccg cgaagcatgg 180
 tagagcnacg cagactccat atatgcttgt gctttctaca caccgcgaa caaccacac 240
 ccggcggcgc gcgcgcgcga acgcantaca acaggacccc cagccanca cagacaangc 300
 accccacact acacacaaca agagaggngc gacgaccacg acacacacgc aactcgtcg 360
 actcagatg cacaccgcac gacaacta tctatatcgc gcacaccaac acatatcact 420

actactgtgg cacagaccgg gngaaccaca cactcctatg cctcggcaca cacaacacta 480
 cgccggacct ccgcgcgcac ccacacgcag taatgcacgc cgccaacgaa cccgataggc 540
 aacgacgccg aatcaccgaa ccgctgctta cagctcggga tcacccgcgc gcgagacaca 600
 cacctancac gagagacaag cccggctaac ccacacaaaa cataccgacg aggcgtgaac 660
 agaccgcggc agacgactta ctgcacactc cactctagct acccacaatg cagcaacggg 720
 gccacaccg agcacgcccac caccggagccg 750

<210> 15603
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15603

accattaatt gtgccttgct gtgaaaatat tttctctttg tgtgtcgtcc agtggtgca 60
 tctgactttc caagaacctt cttaccatta gcatgtcacc ttgcatggct tnnctctcaa 120
 gctctttttt cagctcttct tcttactaa tttcagaata actggtgact ttccatgggg 180
 accggacgaa gttgcttctt tcttcttgga gctgtnggtc cattctagtn gaaattggtg 240
 gatgaattcc tttgtgctgc aactttctc ttcacctgct gttcacccgg actgtctatg 300
 cagcangcat ccaattcacg tcttntgtat tcaacatata tctatggagg attagacatt 360
 aaaaaagagc cttgtgctc acttctttct tgtggtctac taagcctccc attattgaga 420
 ctctcc 426

<210> 15604
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15604

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 acctggagat atgtcgcggg ggtcaggaga ccttggggac atcatgtggg gtgctattgc 120
 ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcggtcag tgagaacctg 180
 tgatgtacct aagcaggcga gtcctggca gtcaacagat aaaaggaaca aagaccacaa 240

agcaaggagg cttgtggtgg ctggccagct gtgaaacttg attgatatgt gagatgtggg 300
 ctctggtaat cgattaccaa ggggtgggtaa tgcattacag agcttaaaaa tgaagacagg 360
 aggetgagat ggtctctgta atcgattac 389

<210> 15605
 <211> 105
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 15605

cgagtaatta ctctatatta gtggtagtta gttagtact ttcatttgta caaacagaat 60
 atagtactta ttgtgcaagc ttcctctttt ctctcttttt ctctc 105

<210> 15606
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 15606

tcttcccttt cccatgaccg gcattgtcaa agatcctaca catgttggtc aggtgtacaa 60
 agttatggat accatgacaa ttcaccatca tcttcacttc tagttggagg ccattgataa 120
 acttcacaca tttagacctc tccctagctt cccctgata atgaggaaaa taccttacca 180
 ggttctcaaa cctagctgca tactctgcca cgcacatgct cccctctttc gactctaaga 240
 actccatctc tttcctatnt ttcacgtctt ctggaaaata cttctctaga aaagtgtgtc 300
 tgaaagtccc cgatgggaca atagcaccac ctgctccctc caaacgtgga cgagtgttct 360
 cccaccagta ctctgcctca tctgccagca tgtgattaga aaacaacacc tttttctagt 420
 c 421

<210> 15607
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 15607

nngttcacga agccatcgtc aatatgctca ttttgggtatt tcttactggg ttattatgca 60

tggaattcat ctcttagaag aatatgaatt cagagaagct tgattttcttc tagtgtaccg 120
 gcccttggtc tctggtacct aagtttgcta cgaatagcac aggtgaagcc acatattgcc 180
 ngagaacatt gngaaaagtt cctcggccaa catacatatt taaatttatt cctatataaa 240
 ataagactca tacgtnttat tttcttcta tttcttaaac ttttctcact tttttttttt 300
 attttaccct cagatcaatt aaatgataat acctgctgac tcaactctgag gagttaaaact 360
 atgatttatc cgaccaccca ctaccagtcc aggttcacaa acctttcttg tgg 413

<210> 15608
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15608

taatcttcat gatataccaa gaacaagaca tactggaata ttggtganaa ataaaatcat 60
 aatctaaaag ctttatggaa ctaacctctg aagcaggact aaaatgtgtc ccagtacttg 120
 ggaaacaatc tctacatctg atttatcaac ttggtgcct atgactgtat acatgaaaaa 180
 agtgattgaa aggtttagca aatgtattta ttctattaat caatacacag catanagcaa 240
 aataaatntg tttataattt aaccaaacat agaaggtaca attagaatag tggatcaaata 300
 ggaggacagc ctgataatat tgttcaccac aagaaatttc attgcaagat tattggaatc 360
 aaataaatca actcatagtt ntaactataa cagctaacaa ggtcaaaata ct 412

<210> 15609
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15609

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 atgggttttg catggaaaat cttatttctt atatataacc tattagaata atgatgatac 120
 aatgttttga cactatatat ttgntgcat tttaattttg ttccactaat ggaagttgat 180
 gtccttcaca ttaatgtcac cattgaagag cccatgttgc tctatgtcgt gctcatttga 240
 ctttttcta atgtgatct tgatgccttc aagaattata tatattttta tgtaaaagtg 300

gtttttggat cctttgacca ttatgacttt actctaattgt gtcatattag ctaataacta 360
 accatgactg tggatatgag cgtttatgtt tttttagcac tatctttgta attatcaaatt 420
 a 421

<210> 15610
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15610

tattcaaaat acagggcatc ctagccttat ataagcagat gtttaaacag aananaaaat 60
 aacagaataa actttcatat ggattntagt cacagcccaa caattcacca ccttgaacta 120
 acattcatat aagacacaaa ctgcaccctc caagcataca cgaactcaac cctaacaatc 180
 aacattgagc aagcttaagc agtgatcaaa cttgctcttt ggaactggct ttgtgaacat 240
 atcagcaaga ttgtgcagag tgttgatctt atgaactttg attcttcttt ctgaccgaat 300
 gaagtgatat ctaacatcta tatgcttggg tctatcatga taaacctgat ccttggccaa 360
 gcatatagca ctaaggctat cacagtagat gttagcatat tcttgattaa ttccgagatc 420
 atttatt 427

<210> 15611
 <211> 273
 <212> DNA
 <213> Glycine max

<400> 15611

actggtttta gtgggccaga ttctaagagg gggggggtga tagatatcga acttttcctt 60
 attaaatcat tactttatta gttgattcct atgcattctt aatttaatca atgggcactt 120
 gattgattta gatataatag ggataggaag aatgactcgt tatcggtcgc cacctggctc 180
 gtcgccacac cgtgaagtcc tctgaatctt cagttaacca gcccctctgg tgaatttcaa 240
 gaatcgctta tcttagagga gaaagacact ttg 273

<210> 15612
 <211> 397
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15612

ntgatttcct ttgttccgga aacctttctt ttctcatgtg cttccaaacc caatctccgg 60
gttcgaagac aacctttctt ctccctttgt tggcttggtt agcatagctt ttatttttcc 120
tctcaatttg atctttgact ctctcatgaa gcttcttcac atagtccgcc tttgcttgac 180
cttctttatg cttaaaaaca gaaacattag gcataggcaa aagatcaaga ggagtttagtg 240
ggttaaaacc ataaacaact tcaaaaggag aacaattagt ggtgctatga acagctctat 300
tgtaagcaaa ttcaacatgg ggtaacaag cttcccaagt ttttaagttc ttcctcaaaa 360
ctgtcctaag caaagttccc aaagtcctat taacaac 397

<210> 15613

<211> 469

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15613

gtctacttga actcactcgt ctcggtcttn agcaccgagc tgcactgtgc tccgccacta 60
tcatcacaaa gttgtttgac ctatgggagg ggcacatgat ctacagcttg gtgcatggac 120
aagactatga acatccatgc agcttgggtg atgaagttga ccatatattc atggatctac 180
cgtncaagca atctacaact ttcaaaagat gccacttcac cgagataatg gcgacccttg 240
atgttggtat ttgttattca tacaggttct ggtcccactt ctctcaacta tgcacaacct 300
cccaccaccg tactcgtgat acagtggaca catgattggc catccataga atcttttggt 360
aatgctacgg cctnagaant agcaattctt gcttctttca caaacaatcc cacttaattct 420
tatactactg ttgccttttg caacattcac acttcaatgt tttgttggg 469

<210> 15614

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15614

tgactgcgct tagaatatcc aaagaaaatt ccttcatctg tttttcatca aattttccta 60

agtcttcttt tccattgttt attacaaaac atttgctacc aaaaacatga agatgtgaaa 120
 tgttttggtt tcaaccattg aacaatttat atgggggttt ctttaaaatg ggtcttatta 180
 aagccctatt catgatatag catgcagtat taacggcttc agctcaaaaa tattttggaa 240
 gaggggtatc atttaataag gttctagcaa tttcttccaa agacctatnt tttctttcaa 300
 taactccatt ttgttgaagg gttctatgtg cagaanagtt atgttcaatg ccatgctttt 360
 cacaagataa atcatattct ttattttcaa actcaccccc atgatcactc ctaat 415

<210> 15615
 <211> 475
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15615

gtcgcctttg aactcactcg taccgatct ctgactcacc tgcnnngcat gcagcttctn 60
 nggtaatggt accaatacca ataccaattt tccattntaa ataggatatac tggtaatatt 120
 aaatattgga tattagtatt attggtatta cccatgttca tagactattg gttttcattg 180
 agaatggta atctggttcc ttggggaatt tgtgaattat ttcttttgtg ataattgaca 240
 cttggctggg cttaattttt gactatggac tacaccctgt ggtagtgat agtaagactt 300
 gaggaacatt tgagaatcag aatcttagtt ttttttaatg attgttgtgt aggtcattgc 360
 tattgatgta gacctgactt cctataaata agtttttttt ttttaattatt gtgtngctat 420
 atataataat attattatta cttatagggt ctgcgactgt gactgtacat ctaat 475

<210> 15616
 <211> 458
 <212> DNA
 <213> Glycine max

<400> 15616

ctgtccgatg cagcagtaat gatggcccga gttatgtttg ggaaccgtta ccaaccggga 60
 atgggttttag gcaaatacta ccgcggcata actagcctga ttaatgccca aggaaatcgt 120
 gggaaatatt ggttaggcta taaaccact cacgccgata taaagaaaaa cttccggga 180
 aaaaaaacc gtggtcaaaa ctgcgcggtg agacaagaaa gtgaaggaag cccgccctgg 240

cacataagta gaagcttgat aagcgcggt ctgggagacg aagggtcagt ggtcgcgata 300
 tacgaagatg atgttccgag tacatttgat ttggtacgac cattgccctc tgatttccag 360
 cttggaaatt tgcgagtgga ggaacgcccc ggcatttact caacgagcat aatgtaacct 420
 ttacggttta aaagctctat agttgaccta agcttaag 458

<210> 15617
 <211> 196
 <212> DNA
 <213> Glycine max

<400> 15617

atagacttca atgccccaaa ctatgtgtat gtaatgtcaa caatttaaata tgctctttat 60
 actcctcaca cttcacgcaa ttcaccaact ttcagacact actggaaata tataacatga 120
 ggtacttaaa cttgtgacca gccaaagacaa tgtacactag aatatctggt aagcttgcta 180
 cctatatacc caccta 196

<210> 15618
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 15618

aaaacgactt atgtggggat ctctctgaaa ccatttcaga aaattaaata cattcttact 60
 catttcttat gtgagcacat aaatgaatta tgaagtttta tttatttttg ttacctatta 120
 acaaaattgt ccacttgata tagcttcagc aagaccgctt ctattttttt agttttttta 180
 atagtgcctt ttgtgagaaa gtggaaaatg atcttgtttt tatcccaatg aagcgtgggt 240
 atagcaataa atatagctgc tctaagtact ctatggagag agtgtggctg tcatacaaca 300
 acaacgcctt atcattttct atatttcttt 330

<210> 15619
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15619

agccanatag acttacctng actnanntnn ctttgatagc ctttttgagc cctggtnnc 60

ctttccttng ttttgaagct cactacangc cttaagtgan aaccatgata tcaccatata 120
cttaanggaa tttggagctt tggaattgtt ttggaataag ttgtgggggtt tntgttcatt 180
ggatacatgn tttgtggcca tgcttcatga atatttnanc nctacttgat gacatccata 240
ttggtaaatg ttgacatgct aatatgaatg tgttctcaan ggtacagagt acananaaaa 300
ttattataaa aaaaatcgaa aagaaaaaan acagtaaagt gaggataag atctaatac 360
aataatgata gactcttgct tatcttatgt taaaaatacc tacttcttta tatctaagct 420
c 421

<210> 15620
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15620

agatgatgac aaaagagctc ataagtcaag aacacttcat gataacaaag atgatgatct 60
caagaatcaa agaattgagtt caagattgaa tcaagaacac ttcaagggtc aaaaggaaat 120
ttgatttcaa gaatcaagaa tcaagtttca agattcaagt tccaagaatc aagatcaaga 180
ttcaagaatc aagagaagac tcaatcaaga taagtattaa caagtgtttt caaaaactga 240
gcagcacatg aatttttctc aaaacctttt accaaagagt ntttactctc tagtaatcga 300
ttaccagatt attggaatca attaccagta gcaaaatggt tttcaaaaat gacctttacg 360
acggtgaaat cgtaaaacca tactcggatg act 393

<210> 15621
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15621

agctaaaagc aagtatctca gtattttgat ggctctacta tgcgcaccct aacgaattgg 60
tgggacaccc aacaatttcg tattttttcca tttgcctttc gtatgagatg aatcgacacg 120
aatcatcttg atccatatga gatgatctat ataagtctaa ttcaagggtt tttttggtgt 180
ttctaataat tgggacgaat taatttataa ttaatgggcc caacaaaaat cacacctact 240

ttcaagttat tagcccaacg ctctaccac tgagctaag agtcattaca ttataacaat 300
 aaatatggtg gtatacataa caacttaaat tctaagtta tttatgggca tgtaatttaa 360
 ataataattt ttggcaataa ttttgtataa ctcatcaatt attaacttgg ttatgtttaa 420
 aaataaaaaa attactatt 439

<210> 15622
 <211> 503
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15622

ccccattga cnccatttga tagactcgct agctattacg cgaccattga atacctagct 60
 ntagcctgat cgtaagcga tagctcaagt catggctaag cgtgatctat tggcaacaag 120
 cacaatttct taccaccatt attgaagtct acgacgctta gctccaggct ggcagcttaa 180
 ccagattcat tacaggcatg tgagcgctaa gtgagtgcct cttaactaag cacatgctgc 240
 tctgtactaa aatgccttat tctaactaaa ctggccagag ccaggetttag tgagaagtgc 300
 aacattttct aatctgcaga ctttgctaag cggactcacc ctgcgcgtat actgagtttc 360
 tgtcaataaa aaatgatgtt gaatttgaaa cgtcagctaa tcgcgcggat tcgctaagca 420
 caggtcttga gaaacaaacg tacttctgct tagcagacat ttcgctagtg caagtgtcaa 480
 aatcgcttgg taagtgaact tcg 503

<210> 15623
 <211> 497
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15623

tgatgctcat atttangcng actcagctcg tacncgggat actctaagtc acnctgagggc 60
 atgcangctn gcttctacag tagagacact catgtatctg cttctgtcca tggnggggtgg 120
 cccgcgctt gtgaactaaa tgctgtatat accacttcac acccaatggc caacccaatt 180
 aactttgccc aaagtgggca gtggtgcggc ccgccgtnc t aattgtgcgt caaccttgcg 240
 cctgctaaga agtgaatact tcttcatgaa aagctcgggtg atcagccgctc ggattacctt 300

gcttgggggtg acaagaactc ttatacttgc agaggccctt gatantgccg gaaccccagg 360
 ccctgtggac tttctgggct ataggagcct atatgccc atcttcaacaa taaatggcta 420
 gcattcacta gcacgtgaag ttattcttta gatggatcac caatgcctta gcacggaggc 480
 ggattgagtg ccacaag 497

<210> 15624
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 15624
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 ttttgggtgag gtagccatgg aaaagcagag cgtttggaat ggtttatcca atttctgaga 120
 actgttgggg gatgctgaaa acgagattat cacgaatata taaatttgaa tgaggaatgt 180
 aaagggccgt gtgaaacaac ggtcgaattt gctttgggtc agtagtgaa gtgctattaa 240
 tgttatgtga ttcgtttggg cacgttcaga tatcagtagt tgctacaatt tctctagcag 300
 aacaatgccc aacttgcccc ttcagttt aaactgggtt gcatccaatg cttttgtgaa 360
 aatatc 366

<210> 15625
 <211> 314
 <212> DNA
 <213> Glycine max

<400> 15625
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 acatgcatta agtgaatatt tgatgtgttg ctggaaataa tttattgatt gggaacccat 120
 cattatttaa gggaggactt gtggtcccca tgcaatatta taccttggct gctatgctaa 180
 tgctacaac tagccaccta tgagaatctt gacttgatct tgattatgtg ctaacatttt 240
 taaattaagt attataatat tgaattttgg tcaaaattgg ctttcaattt atttcaaatt 300
 cagtgaatt taat 314

<210> 15626
 <211> 420

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15626

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tcacctcttc tcctttatct tctgctataa ttccatgggt gaaaatcacc attgaagaac 120
ctcattgaaa ctcaaagatc caacctccat agaagcttct taagcaagct tccatcagta 180
ggcttatttg gctagtggct aaaagaaaaa agggctaaat catctcaata aatgcatgtg 240
ccacaaggaa tgacaagaaa agcaaggaat aacctagagt aatctagcac gagggtgaaa 300
tcacacatta tagaacatga atggtataat gcnatccatc ctacaaatcc ccaaaaactc 360
acaaggaagt tattcatcac acatgatcca ccttcacaat ttcaagctta tttatcactt 420

<210> 15627
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15627

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ctctacnggc tatcaggctc tttgtcttac agacagcaaa aaagaatggg tattaccgga 120
taccactcn ggtattctcc gcccgtcagc gtgtctccaa tgtcagtatg acagatcttg 180
gagcgcaaaa tgacgtaatt cccgtggcac agcttgtcgg cgcgatgaca aaagcgccaa 240
gagatgcagt cttccatgct tcagcatttg tctacagacg caaaangaat gttttcggat 300
accctcggtt tctccccctc acgtgctaaa tgcataatcc atctgtgacg cgaaatacct 360
aatctcactt gacggcttgc ggcccatgac aaggcccaaa acaatgcttt tcatgttt 418

<210> 15628
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15628

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aaccatgaaa caaattgctc tgtattagct atatcaataa aggtgggtaa gttaagtttt 120
 gtgcttgaac ctctagccgt gtaacacttg agaaatattg cagcaccgaa gtacttgagt 180
 aatcttccaa ggtcactcat cgagggttgc cttcagtcac gacattggct tcaaattctg 240
 ctgtttgaga ttccctggat atatgtgaat tagaagatga tgacacacaa aagtgagcgt 300
 cttcaaagat tgatgcaact agtttgctgt gcacaaacta tctttttctc tctgtgttgg 360
 ttcttctaaa agtggcttca atttctaaat ccaatgaaac caattca 407

<210> 15629
 <211> 132
 <212> DNA
 <213> Glycine max

<400> 15629
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 gtgggacaca atggggaccg aacaactacg tctttttaac aaacctttga acggctacaa 120
 actgggcgga aa 132

<210> 15630
 <211> 101
 <212> DNA
 <213> Glycine max

<400> 15630
 gccacccatc aaatgtgagt ttgtcacaca accattcccg gagggtgagg gatgatgtgt 60
 cttcatgcac cggaagcgaa agcttgagac acaaatcaac a 101

<210> 15631
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 15631
 attgtcgatc acattggcac tcactcgacc gggatcctaa gcacctgggc tgcaacttta 60
 tctacgcaat gaagtgtgtc aattattgag ataaatttac tctaagctat aacatcaggg 120
 aaacataact ttcttaagac cacaatgact acacctattg atccttaatg gatcacaaaa 180
 cactcctaag tatttcctat tctggtatgt gcacataacc attaaacaat actccatc 240

taattctaaa tccatcttga tctcttattc acttgtgcag cttctgttat taagttatga 300
gataaataat gataaaaaat tgaaagactc tctaaaaaca ctactatga ataataagag 360
taattggtaa aaaacaaata tttgtgattg ttaaaaaact tattacccca aatcaataa 420
ttagtaaa 428

<210> 15632
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15632

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gaattttctt tgtttgcttc ttccccataa accacattta accaggttat acaataataa 120
catcgatttg aagataccta ctctccaaat tacaccctaa acctgatatg aaacgtagt 180
atcaaaagac tagtagtaac tctactgta tggatatcac atcccaaaac tgatcctgct 240
tttggaaaat aatatgcatg attaacaaat agtaattccc tcatatacat tcaaagggat 300
attatactat ggaaaaatat tgatttagta tcttgctttt ggataataat attcttatac 360
atccaaccct tcacttgaat tatcacttat cagccatctt agttcagtt 409

<210> 15633
<211> 497
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15633

ttgcatataa gcactcactc gtaccgggat ctcaagtcac tgcagcttca acctgcgaga 60
accatattga tcaatgatgg attatctctt ggtaaaattg acgatgatac atgtgttcag 120
cttatatact atcaactgtt gatgcccac ttactaacia acaatacaat taaactggta 180
ctggttctca ctgcattac agagaacaag ctgtgcataa ctaaattgat atgtcgagaa 240
tactctccag agatataatt atgtgtcaat cattgatctt ttgggggggt gtgttgctga 300
acacaacaat cactctggcc tcacngacac atatcatttc ttgcaggcag agataaaatt 360
catcacaggc aacgggtcta aatgaattgc aagcattcca ccacatgaac atgattttca 420

cacttatatt gtgagacaga tgctactttt tgcctataaa aacatcccat ttggtatcaa 480
aacttattac gactatn 497

<210> 15634
<211> 358
<212> DNA
<213> Glycine max

<400> 15634

atgatggtga actatcttct tcatacattt ctgaaaattt acatctgtcc ttttccggcg 60
ttattgcctg agaattaaga aaataattac cactctcaat aatttgatca gctaacttta 120
atttaaaaa atctaactgc gtgtttcttg ttttttaaaa tcttgaaatc aagaattaaa 180
aataataatc atccactcat ccttttttaa aaatgaaaca gacaaaaaat tgactggaga 240
aagtgttata tatctaaatc cgctgacgaa atttgactaa aaattaaaca gacctgatca 300
acgtcaatta acggctggcc acctttcttc tttcttcaca tgattagatt agagagag 358

<210> 15635
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15635

ttgcttttga ctccctgccg gtcttaatca ctgagctgca gcttgcccat ttctacacgg 60
ttttggcata attatacgaa aagccccttt cattcagggg tcgttcttaa ttttcacctc 120
ctccaggggt ttgtactaat taaccatttc tgggtaatta catactgctt ctttaagcttt 180
ggggccccaa attggcatgg gcatttggtt ttttatactt tcctaccac ttatgataat 240
ctgctattca cataagggct ctttatgctt ttttcagttt tgttctaaac cgatcaaadc 300
aactatttcc ttgtgctaaa tggttcaata aacgattttt ttgatatggt cttactacat 360
gcactttata ttatttttgg aacatttgca caaan 395

<210> 15636
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 15636

tctacttatg tggcagggcg ggcttccttc actntcttgt cttcaacgcg agctctgacc 60

actgttctcc cttcccgcga tggctctttt catgtccgcc tgagtgggct tatagcctaa 120

accatacttc ccacgatttc cttgggtttt tatcaagcta gttatgccgc cattgtcttt 180

gcctaaaccc atccccgggtt cataaccgtt ccccaacata actcggggcca tcattaccgc 240

cgcacgcgac agacaagggtt gcccaaagag ggagtccacg gaggaaatgc tgaccacctc 300

aaaagactgg aaagcgggtt ctaacgattc ttctgcggct tccacataag gcatggagga 360

tgggcagctt accaagatat cttcctcgcc tgacacgatg accaagtgcc cctccactac 420

gaatttcagc tnttgggtga gtg 443

<210> 15637

<211> 518

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15637

ttgctcatat ggcgactcag ctcgtaccgn gatccttnag tcacctgcgg cttgaagctt 60

ccaatgtttc agccttggaa tatatttatt gaaatatcat atanggatag atataaggag 120

tgtcttatgg acctaccatg gcttgggaatt ctattctatc aaaccaatg aattcttgta 180

aggtgaagac attgcaagac acctactgtc cttatactct gccgcagaat agagttgttg 240

aaagaatgaa ccaaaacttg gtattcaatt canggtcgaa taannatttc tanggtgaag 300

tggtaacaca tggtatctcg tgaatcgggtc atcgtccact ggcatagatt tcaagatacc 360

tattgaagga ttgtctaacc aaccttggtga atactcatag ctgaagtgtt tgagtgtcca 420

ccataatatc atgtatgaga aagtaagctg gaaccctaaa gccaaaaaag tgtcttattg 480

cctattgaaa ggagtcaaag attataatct ggtgcctt 518

<210> 15638

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15638

tctttgacat ataatggacg agaaagtagt caaaaagcat gttgacgtgg aagatgacgt 60
 ggtcgtggcc aaggaagatt atgaagagga gatcgtgata attntgacaa taatgaatgg 120
 aggagccatc aatccactag aagttgtgga agaggaagag aaagaggtag aaacaattat 180
 gaaaaagcat atgaaaggag gtatgataaa tctaattgtt aatgttttaa ttgtcataaa 240
 tatggccatt actcttggga gtgtagaaca aatgttgaag agaattgtcaa tcttgttgat 300
 gataaagaag ataaagaagt tgaagagcca gcactactac tatcacttaa taatggtgag 360
 aaagaagaca aatgcttatg gtatcttgac tatggagcaa gcaatcacat gtgtggatgc 420
 aaagagaaat ttgtggaact tgatg 445

<210> 15639
 <211> 87
 <212> DNA
 <213> Glycine max

<400> 15639

ttcaccactt cgctatctgt tggggagttg tgcttggtag gctaagacgt tgagagactg 60
 ctctaagcag tgtgtaatta gtctgga 87

<210> 15640
 <211> 210
 <212> DNA
 <213> Glycine max

<400> 15640

ttgttctttt ataaaatgag aagttctgaa ctcatcatgt tatctaagaa aaccttgggg 60
 aggatccaag tgctccgac atccatttgc atactcatgg tttgggggca tactcaccgc 120
 tggttatttc ttttaggaatt tcattcataa ctaaaaaac accaaggcac ccctataaca 180
 ctccatccaa aaaaatggat aatgaaaaag 210

<210> 15641
 <211> 195
 <212> DNA
 <213> Glycine max

<400> 15641

tggcactcac tcgtccggga tccttaagtc actgcggatg cgctgaaaga ttaaattctgt 60

ggattctgat cctgcaatgt atgttcttaa tggaaatctt gtgaccgttc tggatatctt 120
 gggatggcca agaagtcac atgcaaaacc atggaaattg aatgggtggct gaattatacc 180
 tgatgctgac gtttt 195

<210> 15642
 <211> 364
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 15642

ntagccttaa gttgttctat gttgcttatg ttgttgctcc ccctatctct aatagtttga 60
 gacctcagac aaagatgatt cttgatggct cagcaagagg tactattatg tctaagagcc 120
 ctaaggaaga aattgtaatc attgactcta tagaagccac tgattatcag agtcaccatg 180
 atagggctct ggttcaaagg aaagttataa tggagccaga tactcagaat gtaattctag 240
 cttagaataa actcttgact caacaaatag aagccttaac aaaacaaata ggccaacttc 300
 cttaataatt tgagtagggg ggatcacaga anacatacca agctcatcaa gtacaaaaag 360
 ttct 364

<210> 15643
 <211> 499
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 15643

atatgcacac ctcagacact actncagctc gtacccggga tccctaagtc acctgtgcat 60
 cagctcacac atgtcttctc attgcttctt ccctatcttt ttgatgcaat ttgaatggac 120
 tccaactctt cctgcgttta gatgtctcgc anaagagacc agatgccaga gcctgctcaa 180
 gccacaagtc aaatgcctct tcttcttctc catcatttca gcatcaaaat cccacgggaa 240
 tctacttcag ttgcaacgtt ggcttttctc caagccaacc atgtttacat ggaaactcgg 300
 tcgatgggta tatggcctgc agccattccc tgcagaaata aaaaagctgt cggttcataa 360
 tggagtaaaa atgatgcttc ttatcataat tctctatctt acacagaaat accactacct 420
 acataagaga caaaaatgga cccactgaat ttattgccag ataacaaaat tcctatattt 480

ccctctgata aaggtaa

499

<210> 15644
<211> 289
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15644

acttcttggtg caccatggcc aacttttcaa tctttattct ctttttattc tacttttctg 60
atttaacttt tctttatctc ttcttcctac tctttagaat agaagtgtgg cattgtatct 120
gatctccatc tcttcgcaa actagcatcg caatcaacat tggaatcagg gatggaggat 180
cttggcgact ttctctgtga ccaccaaatac tttgtgtntt aagtctccaa cgccgtgtgg 240
gaggaataag tgggtgaaaa aacggagagg atagtggaga agaccctca 289

<210> 15645
<211> 63
<212> DNA
<213> Glycine max

<400> 15645
tacctggtag gagtgtgata gagtatgagc tcttgatgat aatttcagaa aggtgatgta 60
ctg 63

<210> 15646
<211> 328
<212> DNA
<213> Glycine max

<400> 15646
gaatgtcaat ccttaccctc tggtatctga aaagaataga agggaaattt ccaatctata 60
aaaaataaac agagaaggaa aattccaat gaaagagaat aaagaataga aaggaaattc 120
ccaatcaaag agtgggagaa agcaaaatga aaagaaagaa aattccaac ctaagaatgg 180
gaaaagtaat aaaaaaagaa gacactcccg gcaaagaaac tataagaaat gtgcaaaagg 240
tcttttgacc agacaatatc tgaacaatac acaatttgtc ccacatgaac acaaaaggaa 300
tgagatgaaa ccacgaccta aaatggtc 328

<210> 15647
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 15647

tgccctttgca ccactgtccg gtcttagcac gcgtgacttc ttcaaccatg atctttgttc 60
 gaaccatatt ttgcgccccaa gcctattaca aaccatatac accagcaaca ttccgtatat 120
 tactgctgtc caaatgtgct gatacttgag gtacaccttc ctaccacccc agatacacta 180
 cgcaatttag tggaatatat gaactcaatg gagcggttcag cggcttgaaa aaccactcaa 240
 atgcacattg ccacatTTTT tagtgTTaag gtgaccctta tttgctattc cacaggctct 300
 actttgtgat caaatTTcaa atttgaaaaa cttgtcttca tgccaacaga actTTtaact 360
 tctt 364

<210> 15648
 <211> 313
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15648

tatctnggat tcgaagagga atatgatctc aaatgtgtcc tcagagttac caaggatgtc 60
 attgccttca ctagaagcgt atctttgcat ccataaactt gccttctctc agagcctttt 120
 acttctccaa ggacgaaaaa ttgctacatg atacattgtt gttgaaatcc ataattcggt 180
 tatctatttg atgagatttt cttgctgcct aattgtgtgt gtgtagttaa ttaattattg 240
 aattcatgca atttaattgg tctagtttag gaatactatg tctaatatgc tctagccttt 300
 ctggcatgtc att 313

<210> 15649
 <211> 481
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15649

ntgactaaac caatggcatg gacactggaa aagaatttac tctattntca aaattgtact 60
 aacttgtntc tctgtctcan ggaattatgc caaggaccaa cggtacaggt ggcttctgtt 120

tctttatttt attcaccaaa ataacttgag tagtttgaat gacaccagcc accgaaactt 180
gacctttgag aacacatctt gtcacaccac taggattcgc ctactcagca ttcaaaagat 240
cttcattacg tgccctgtcat tcattatata cagttcctcc attcattgtg tctaactttt 300
cccgcgcaca atagtctcca ttcacttccg gcatatattt ggcaattgga tatttgcaag 360
gttcaaagga gttgctngcc accgattcat tgtgcaaccc gcttactata tgtaaaaagc 420
acttccaaag tccaaaccag gtcaatcttc cttatggaat taaccttttt tattgtcctc 480
g 481

<210> 15650
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15650

tcatattcca gcaaagcata atcactgtga acgatnaaat ttgctttca aataattcaa 60
gtaattacat attcgagatt cacactcaac tatagatttt aatagaacaa ccttacatat 120
attaatacac atgtttgggc gtaaaagtga ctattattat tatttttaaat atataaatca 180
aactaaccat gcattgatnt gaatgaatcc caaagttttg tatgagtgc aacaaagcct 240
taattgaaat gcttgatttt gaaggggtata ttgagtgtc aacgtcaaat aaatntataa 300
cacnattgac cttttttcaa ggggttaatta tctnntttta tccttatagt tgcaacaact 360
ttctttttga ttcatacaag ctaaaacatc tta 393

<210> 15651
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15651

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ggcattctgg gataactctt cttctgggta tccctagtgg atggtngeet ccctctctc 120
ttcttctttg ctttctgctg catctccatg ggtgtaaaat caccaattga ggacctcatt 180
gaagctcana gatccaacct catagaagct ctacangcaa gcttccatca ngtggtaatc 240

agagcaccaa gagcttcaag taggtgctcc ttanacctc ccataatnnt ttgctttacc 300
 ttctctccca ttgtgttctt attttttct catgatctct ccatgcttgt ctaatgttgt 360
 acatgatctt taagttcccc gtttaacttgt taaactaatt tattttatgg taaattcttg 420
 tctgtcttac ctgattggtg attaggtctt ggag 454

<210> 15652
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15652

tatgtggttc tggaattatt gatcatcata tgtgataatt gactatnttg acacacaaaag 60
 aactcctaaa gtttcagat gcaatctaata cgattaccaa atgtggtaat cgattatctc 120
 aagccacaaa gtcttccttc tgctaaaact agcttatgta atttattact aaaactggta 180
 atcgattaat ccgatgattc ttgccaaatt tcaagtagaa gtgagttatg ttgcttggtc 240
 taacactttg taattgatta ctaaactntg taatcgatta cattgtgttg aactcattgc 300
 ttctaagaaa ctttgagacc aattcattaa tctaccttgt ttgctttcta ctaagcatga 360
 atataagaga ctaaatacacc catcatgcct agtctaaaaa catccaatan taatgccaca 420
 tctttt 426

<210> 15653
 <211> 293
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15653

actgcgcggt cttagcacga gctcagctat taagtgttc tagttaaatg acttaaaatt 60
 caagtctcaa gtacatataa agggcttaat anataaaatc tacgactact atagctatct 120
 ataacatata attctcacia ctctttgctg gtatatataa tcttgctttg attgattcaa 180
 actgttcgcc tcaatcacca acgcggagta attggagaca agccgtagat atagataacc 240
 tggatggcat actggggaca accttatggg tcttcgttat tatcttacat tta 293

<210> 15654
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15654

tggattntat gatagggatt ttgccgagat attgatgata gaaaaagtac ctcccgat 60
 ggattntta tgggtgatcg ngttttacat ggagttctaa gaagcaaggg cttgtgacac 120
 tttctacctg tgaagcccaa tatgtagctg caacttcttg caccatgtca tgccatttgg 180
 ctaaaaagat cgttggangg aacttcaatt gtgcaaaagg anagcacaaa gatcttatgg 240
 tgataataga tctggacaag agcctggcaa gaattccggt gttccatgaa cgaagtaagc 300
 ttttagatac acggatcatt tctttgaaag tctattccaa gaaagaagtt aattgcacat 360
 gtaaaactta aatcaagtgc cgatatttca cccaccctc acatttgaga ttttcaaaat 420
 agcaaccaa cttgtggggc g 441

<210> 15655
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15655

tgtttaagag tggttaacac accctacaac tcaattgtna ttacataaga ggaacccatg 60
 ttttgcgatga atcccacaag atgctcacac accacccaat tggaccgatc catccgaatt 120
 ggccttcacc caattattct catgcaatcc taatctctta gacactccca ctttcatcaa 180
 tagtgggaacc aaattgcaa gaacttaca caccaacaac ccacctcata gcctgctcaa 240
 ccacacttgc aacatcaa tgcaccatct taaacacaac accattgaac tccatatata 300
 ggtaagcata acttgaata aattacacca agaaatattg tcttgacccc atctgtatcc 360
 atagtattag gctcaatcac tactataaaa tatgcttggt acatcgacta 410

<210> 15656
 <211> 302
 <212> DNA
 <213> Glycine max

<400> 15656

agcttcttat cctatgctca tcttggtggt gaagctcett ctccatggc ttattcccga 60
 gtggatggca cctcctctca cctcttctcc tttgtcttcc gctgcatctc catgttgga 120
 aatcaccatt aaaggacctc attgaagctc aagatccagc ctccatagaa gccccacaag 180
 caagcttcca tcaagtggta tcggagcaca agagcttcaa gtaggtgctc cttaaactc 240
 cattaatatt tttttgcttt accttctctt ccattgttgt ttcttcaatt ttatccatgt 300
 at 302

<210> 15657
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15657

acgataaata aaagatacaa aacaaagaaa gaagagaaaa agaagagaaa taatttanaa 60
 ttntnttgag acattgagan caaannttat ngaaaagcan naaagggagg gnntgaagag 120
 aaaaaggagg aaaagaaaaa atttttatat ataaagaaga aaaaagaaag gggggggggg 180
 aaaagaataa acagagaaat aaagaaaatg aaaagaaaaa gaaggaagaa aaaaaagaag 240
 atgaaaggag gaaaaggaag agagagaaaa gatgagaaaa aaaggaaaag aagaggaaaa 300
 agaaggagaa ataaaaaaaa aagaaagaga aaaagattaa agaaaaagga gaaagagaaa 360
 agaaaagaag aaaaagatag aaaaaaagaa aaaagaaaaa aagagagaga gaacagaaaa 420
 gtaaaaaaaaa aaaagaaaaa agaaaaagaa aaggaacaaa agaagaaaaa aaa 473

<210> 15658
 <211> 247
 <212> DNA
 <213> Glycine max

<400> 15658

agcctaccct atttggcact tcttggactt ccattgttcc taactcaatc actgttaaag 60
 gcctgctgat tgagtacaaa gtgactcgca actattaggt gagtaattaa tcaactcctt 120
 gcatgtcata ttttaatatc atagaatatc ttatattgaa tttcatgttc aatccacgaa 180
 gattcgagta ccatgttctc atttatgaaa tctgcaggat gcacccatct gaacatggaa 240

aggaata

247

<210> 15659
<211> 270
<212> DNA
<213> Glycine max

<400> 15659

agccttgagc tttttcaaac gacaatgaat ttttactcgg atgtgcgatt gagtcacgta 60
atatatcgag aagctcgaaa tggaatacca ctactctgag catattcaaa cgacaataac 120
gttttactcg gatgtctgat tgagtcocat aatttatcgg aacgctctaa atataatacc 180
caagctttga gcatattcat acgacaataa ctcttttact cggaagtcgg attgagtcgc 240
cttatatatc cagacgctct atattgaatg 270

<210> 15660
<211> 525
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15660

agtatacctc ggatacagac actaagcttg taagctatgt ctagctnacc cgatttgctc 60
accctttgaa gttgatggta tggctgtgga gtctcacttg tgtctgtata gatacanaac 120
aaaaggccta tagctgattt ctctgagaga ttgggaggag ccagatngaa ctatcgcacc 180
tatgaacaag agttctatgc cattgtgaga gctcttgatc attggaatca ttatatgcgt 240
tctaactact ttatatagca ttcagatcat gagtcatttg aagtatatca atgggcagca 300
gaagttgagt ccaaagcatt gctacatggg tcgaatctct tccatctttt aattactctt 360
ctaaatacaa cggatgttag agtaatgtgg tggctgatgc actctctang gaggtatgct 420
tcaatataca ttctttacac tccgtagct cggtttcgag actttgaagg attataataa 480
acacaatgtc ggtattgggtg aaatacctct aattgtgaga aggat 525

<210> 15661
<211> 294
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 15661
 agcttgccctc tattatgtcc acgaaggatt atgcgggtcga aggaactatt tccgctcctg 60
 agtatgacag ttaccgcttt aggagcgcta tacaccagca gcgcttcgag gccatcaaag 120
 gatggtcatt tctccgggag cgacgcgtcc aactcangga cgacgagtat atggatntcc 180
 aggaggagat aagtcgccgg cggtgggcat cactatttac ccccatggcc aagttcgatc 240
 cagaaatagt cctcgaattt tatgccaatg ctttggcaac agaggacggc gtgc 294

<210> 15662
 <211> 82
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15662

acctnctcct ccattggtnga tacttcatgg tctccatgat ctctacatg tctggcctaa 60
 tgtttaacat gatcttataa tt 82

<210> 15663
 <211> 245
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15663

naagctnttn gggtctgtat tgcctaaaaa atntgcaatg tagggcggct atgtgtcttc 60
 gtgcgagctc aaccgaagtt gtatttcagc cgacgcccgc atattgtctg ccattgaaaac 120
 attatccac cttggcaaaa aataacatga ttcaccggta tgacagaaat aatgctggcc 180
 ttagtcggtc atgatagatg accgatcgat gtctaaaata gaagcatgac cggattacgc 240
 cgatc 245

<210> 15664
 <211> 269
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15664

agcttctcag ctatcttgct tctcactag cagntgctag tgctatcacc tcacattcca 60

tagtggactg agctaagata gtctttttct ttgacttcca agagacagcc ccaccagcta 120
 tgctaaatat atagccgctg ggtgctttgg aatcatctga aagagtgttc taatctgcat 180
 cgctgtatcc ttcaagtaca gcgggaaacc ctttataatg taatccaaag gctatggttc 240
 tattaaagtg cctcattacc ctttcaata 269

<210> 15665
 <211> 276
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15665

agctntctta tttttctggt tntccaaacc ttganaacaa aacttgtggt attcatcttt 60
 ntcattccct tctcccttg ccaaaaagaa ttcgccaagg actaaccacc tgaattctnt 120
 ttatgtctct cttctccctt ttccaaaaga acgaaagact aactgcttga attcttttgt 180
 gtctcccttc tcccttgta aagaattcaa aacgacacaa tctaagaatt cttttgtttc 240
 ccccttcaca aagtttcgaa ggactaactg tctgag 276

<210> 15666
 <211> 233
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15666

catcaaaggt aattgaaaac ttgggaagaa tggttacctc atgttgaatt atcttataat 60
 anggtagcca aactaccac ttctttttcc tactttgagc ttgtttatgg ttntgatcct 120
 ctatcttctc ttgatttaac tcctttacct aatgattctt ctattttgag taaagatggg 180
 atttctagag ccactcttgt taaggatctt catgaatggg tgagaaatca aat 233

<210> 15667
 <211> 195
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15667

tttgttgcaa gcattnngtc tatctaaaga gtggagtctt catgctgcaa atcgatgggt 60
tctgagtgga aaattctaca ttgggttaagc atgtaattct gcagcatttg cgaagcacat 120
tcaaattaat tgaagtcatg tacgagcact gtagctctta caaaaataag cactgcctcg 180
tatttaatgc acaaa 195

<210> 15668
<211> 354
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 15668

cggctactttg tgtagtcttc cttacgtagt tcccaggag catttgactc gtatgggaac 60
ttgctggagg tgtngccatg ggtcctatcc attattaana taagaatcag gaaacacata 120
gtaattacaa caacatgtaa gtatcanatt gtanataagt agaattgtaa aatgtaaaat 180
agttaatttt ttgagttaaa cattatttga gtatatacca ccgttaaata gtcgtatact 240
cccataaaca ctcacatga atcgtaagaa ttgcatgtac atcattgtct tcattttcag 300
catctatgga aggcacatgt ggggaaaaag tgggcatgtc attaacatca agtg 354

<210> 15669
<211> 267
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 15669

gcccgttggc gtgcgttcca aacgagccct catggacttc ctcgatcatg tgatttgcct 60
ccctggcatc cacacaccgc atgagtgtca tgtcctgatt tctcttatac agtatgcttc 120
cactcatgaa gaaaccggct gccaaccttc tcaatgtcct cttatcattg tcggcaatct 180
cgggcgggta ttctntgctt acgacatata gcttgatgtc gaaataccaa tgctctccgt 240
ctcgttcttc ttctacttgg caacaac 267

<210> 15670
<211> 268
<212> DNA
<213> Glycine max

<400> 15670

tcactctgtt tccactcata acaccatatt cttactgtct aaccctaagt taaccctacc 60
cttcatctct aacagttttc cataagcaat ttcagcacat aaacatcaca agcatcatca 120
tataaaaccc taaaacagaa tgggttagct tgactcacac caaacatggc aagttcaaca 180
tgctttcaac aaattccttc atagataact atcatgaagc agaaacctag ctaaactacc 240
catcatatct ccctataacc aataccca 268

<210> 15671

<211> 531

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15671

agtgcgtcag ntccnctan ntgcctaaaac anantantna agctttataa gagcaaaaac 60
ccccttantic atnntncaag atatgccatg tgtaatatng gacgcatcaa caangaatct 120
cttctctttg tctattgngc angcaatcaa nggggcanga cacaccagat gattataatg 180
atggatggct caaattctca ccacgtaaaa taatcacttt caaattgagc ttttcaaact 240
atcatgacat gtatagaaga atccacgatt tcaacgcaca aaatgtcaag agcttctatt 300
ttcaaacaat taccattttc ttgaacatat cctataattc aaagaaaaac atgcgaaggc 360
gaacttgctc acaaaattga cccacatatt taactaaact ccgacaagct aacaacatta 420
catatttaca gaactttaaa acctgcaaaa ccaagaacac tcccccata ctaaaccacc 480
attgcctcat gtttccattg aataattaca accttactca tcatgagaac g 531

<210> 15672

<211> 302

<212> DNA

<213> Glycine max

<400> 15672

agcttaagat gatgaagaag aaggtaaatg tttgcgggaa tagtgacttg tacagatgag 60
tcactattta gttttatatg aaagggtgaa gggcattttg gccctttcac ccgagttgct 120
gggtgtctca acaaaaatat tgggtgcccc acacaactct cgtgggttcgg atggtttcat 180
actggccaag cttaaaatat gagctaataa cttttttgtg cctcatgact tactaatttt 240

gttcattat ttttgacta tctgaattat taagaagtca aatgagtttt tcttctatat 300
at 302

<210> 15673
<211> 297
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15673

agcttccatc atgtgggtatt agagcacaag agcttcaagt agtgctaaat gttgtttctt 60
cattaatgat aaaattaatg aagaatntaa gtagcacaag aactccttaa acctccatta 120
attttcagct ntaccttccc ttccattggt gtttcttcat ttttctccat gtatctcttc 180
acatgtctag tgctaaatgt ttttaacatg atcttttaga atttccactg attaaacttg 240
ctatagaagc tagattttat tttttatggg tcanatttct tgttcttgaa ccataaa 297

<210> 15674
<211> 503
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15674

natgtagctg tcgtagttac tgcaactcna agcttgctaa gatgattcct aacgagccag 60
agcttaactt cacacatctc tttataccta acctcacncc tgatatgaga ataagaggct 120
agnctcacac ccctataata gctaagctca cccctatgcc aaaaaacatg aaaatacaaa 180
aaaaagtctt tacttacaag actaccctga aaacccttga atacaagggc taaaccctat 240
actactagaa tgggccaat acaaggtcca tatgaaagaa aacctattct aatatttaca 300
agataacagg ctcatactta cccatgggct caaatctacc ctanggctat gagaaccctg 360
gggcctcctt ggatctctgc acaatctact tggagcttct atcaatgacc ttgnggggtg 420
gatngcatat tatgtnggtn ataattattt aataatgaat ttgacaaaaa atacatgttg 480
tatgatttga gacatggtag act 503

<210> 15675
<211> 285

<212> DNA
<213> Glycine max.

<223> unsure at all n locations
<400> 15675

agctttgcag atttgggtctt cgctgggtaa aggatcanag tgggtttgaa aagaggcaaa 60
tttaatcatc tgcttagacg aattaganaa ctggggcaaa tgaagaaggt gagaatgaat 120
gagaaaccca tgctgcgact gtcgttccta aatagaaaat cccttaccag ctcaacanac 180
atcattactc agccaatatc gaaccttctc attcctcacc acccaattat ccataaaggc 240
catccctaaa tcaaccacaa agcctgtcta ccacacaacc aatgc 285

<210> 15676
<211> 277
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15676

tttatgcaag ctgcatgtta tgtaatgac atgagaatng tcatgttagg tgcttttgct 60
atgctgttaa aacttgccct ggttctgttg gtcgagccaa tgggaaaatt gtggttaatt 120
ggatttcttg atggtttgga ctatggtctg gttggcttta acgagtttga tgcttccttc 180
aattaatttt atagtacacc tgttattttc tctgtctat ctatttgcac atggagtgtg 240
gaatgaagtc tggatgattg cagaatagca atataat 277

<210> 15677
<211> 285
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15677

agcttgtgaa ttgatagacc atnttgagtg acattttaca tgagtgtttg tgtcaatttc 60
acgtattttt cttggcataa ttcacgttta gatctagttt catgtgcata aagtataaat 120
gtttgatcaa gtgaaagagt cggaatcaac acaaacttat anagaaactg atgactctac 180
actataccat ggccatagta ttgtaccaca atcatggtga ccacaatgcc cataataaga 240
tcaccactac cctaaagatc aatgcctacc agttgatcac aatcg 285

<210> 15678
 <211> 245
 <212> DNA
 <213> Glycine max

<400> 15678

tttagcttct ccttcatttt cctataaata agggaaggat ggaagaacaa taatgttcaa 60
 tcctgctggt atctgagatt cacttaaaaa tactcataaa aattatcttc gtgaagaaaa 120
 tccaagccga agcggtttccg taacgcttcc gtgacattac cgtgggtgat tctgcgaaga 180
 tctacaaccg tacttcgtcg ttcgtcgttc gcctctcgtc gttcgaagat cgttcttcgt 240
 cgttc 245

<210> 15679
 <211> 247
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15679

tgcttcactt atggtaagga ggatntntcc acttcttgaa ccttaacctt tttgtctagc 60
 acaatttatg tataaaacaa gtataaggtc tttttagga ttaaagttac tttggatatg 120
 tnggatcaag tggcctctga ataattataa aagagggttg aattaattat tactgaacct 180
 ttactaatta aaaatgtacc cttcttatgc ttttactata atgttaaaaa gtaaataaca 240
 taaatgg 247

<210> 15680
 <211> 498
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15680

tgtgctgtac gttnttacgn gaccctanat actcagctga tgactgatca attgattcnn 60
 agaatttgtg atacaaagat atgacaaaaa ctcatcttctt ttgtttacaa 120
 agatgatgat ctcgcaatc aaagaatgag ttcaagattg aatcaagaac acttcaacgt 180
 tcaaaacgca aattgatgac agaattcaga attaatgttc atgattcaag ttccatgaat 240

caagatcaag atccacgaat ctagactcaa gagaagactc actcgagata tgtattaaaa 300
 agttgtctca aaaactgagt ccaccataat ttgtctcaaa acctttttcc aagagtttta 360
 ctctctggta tcaattacag atttttgcat cgataccatt gcaccatggt tcaacaagct 420
 tcacctgatt tacaatgtcc atcgatttca aatttgtatc gatccatgga ttgcttccgt 480
 tcactgggtt gaagtgcg 498

<210> 15681
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15681

attccttgac acaatctagc tatgtctcta gaggtttgtg gatcgactac attntcttcc 60
 ccaacctaac catggattgg tttctttact tcacacatta aatttattaa tttggccttt 120
 agtgattaac caaccatatt tgaaaagata atacttgtaa tagaaatatt atttatgtgt 180
 ataatatagc atattatttg tatttaaaaa aaaaccatag tatttggttac ttatcaaaat 240
 attttatata tcatatcctt attaacttta agaagttata ttctcacctt ataaaataga 300
 agtatattaa tattaattgg attatacatt ntatcccacn ttntaattgc atattctatc 360
 ttatttttaa aaactgtgat gtactccatc attatcatta tagtcaaaat agggtaaatt 420
 aaaaatataa taaagtcagt aacatcaatt gt 452

<210> 15682
 <211> 292
 <212> DNA
 <213> Glycine max

<400> 15682

tagctgaatg aatgttcaca ccacatactt tatatgccac cagctgtatt attagcaggc 60
 tgcaccgccc aagaaacctc tacatcctcc cataacgcct gacacatagc tttatctatc 120
 atttctttct ttgtttcttg aatacacagc atatccacag tctccatctt tctgaatctt 180
 ctaatggctg accatttcaa cccctccct aagccctga cattgctgga aactatatgc 240
 attgattcct ttgtctgtct ccctcctta tcgctccttc tttgtcctt tc 292

<210> 15683
 <211> 297
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15683

agcttcaggt tgttcattga ctctagaatg ctgcanagaa ggacagagat ctgtatggtg 60
 atctgcagaa gaacatagac cacagattct tgcaacaggt gcagacttct tattcatggc 120
 aagctaagtt actaggttga ccaaggcatc aagttttccc tcaagctttt tattttcagt 180
 agatgaagat gaattcgtgg ccattctcatg gactcctcta aggaaaatag cattatttct 240
 tgcattgaat tgttgggagt tggaagccat cttctcaatc aagttcctag cctcaac 297

<210> 15684
 <211> 246
 <212> DNA
 <213> Glycine max

<400> 15684

cttagatgaa cctaattgcag tattcaactt acacattttg gctgatcttg tattaacat 60
 aaattataat attatatatt ccttctttat ggtataaatg cttgttcaca acgtggcagt 120
 gtgtggtcta caacatgaca gtattgtaac ctgcctggca tattatagat gctaataata 180
 catcatgcag aaattttaat tactataatt tategtacac aatattgatg aatacgtact 240
 tattta 246

<210> 15685
 <211> 261
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15685

agctttctcat ttgtacggng actcttcact ggtgatccac cagctgatat gagaatggga 60
 aactanagac cccaagctga taccctacca agcctatatac aaggaatagt gctgggttctt 120
 tgatgagatc tccttccatc atgttccccg agaggaaaat catattgcaa atgcgcttg 180
 cactttggca tccatgtttc agctaacacc gcacagggac ctaccatata ttgagttctg 240
 gtgtcgtggc agaccgcac a 261

<210> 15686
 <211> 282
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15686

agcttatcat attctattgc actgttgttt tttagacaat gattgattta ttcattgagtc 60
 tgtgttttaa ttgattacca tgtgatatat tctgattactt ctatttctat aagtatttca 120
 gaagtgatca agaacacttt aatggactac attgaggatc taatcgatta cattgtgctt 180
 gagaggnttc cagtttttgg gatgaacact ttaatcgatt gataagataa tataattaac 240
 tacttcattg aaataatcga ttacattgta tatttaatcg at 282

<210> 15687
 <211> 246
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15687

agcttgtata ctgccatgga agtcccacaa ggaggaacaa tgctgaagag cttgttgaat 60
 gaaatggtgg tgtgaacgag accggacaga tgaagaacan gcatatgaag cgggccctgc 120
 aaggttgtgg gccgcaactg tatgggtacc aaaagcggaa gtggtggcgg agggggcgat 180
 ggaggcatca tggctggcgg atgtggcacg atcgtgggtg cggtgagcgt gggatgatgga 240
 gttgac 246

<210> 15688
 <211> 279
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15688

agcttgata gttctctaatt ttatggatcat tntgaattaa atttggtaaa taaatcttgt 60
 tttattgtta acactgtctc tataacattt ccattgaatt taatgatgaa atctgtgcat 120
 tttcaagtga aaaagaggct aagttntgaa ttgcaaaaaa caacaattgg gctaagctta 180

gtagttgggc taagcgcata tccaccatga aaagcgctgc tacagcgtgc ttagcactaa 240
agagaatctg gcagagcatc aacatcaaag ccgcgcact 279

<210> 15689
<211> 344
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15689

gtcttgtgaa tagcatcgag tatcatgtta ggatctaggg tttgaggaat ggtatttctt 60
gccttagtcc aagtgggtgc aagacccccct accatggtgg atgctagcct ttctgggcac 120
cccaagtgcc tgagaatgct catagaatga tatttgagta gttttcccct tggttacaaa 180
ttaatgatat cccatatgat gattaggggc actcctctac cctgccccta aatacacccg 240
tactagagat atgttgctat gagagatgtt aagggtaatg gaaaatccaa taacgcctga 300
gacgttangt gaatgccaag aacctttgac aacaccaaga ggag 344

<210> 15690
<211> 273
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15690

agcttatcat ctatcaaact ggagaaagag ttcttggggg caagacatga gaagcaatca 60
agtataatgc tacttccttc actaaagcgg tgatccatct ccacacatat tttatcaata 120
gcaacataaa aaatctctgc acggtaatga tgaagattag tgatagtcct cccttctgct 180
cttgaacgac ccggaactgg tatttcgtca tccatatntg gtaccagaat acttttagca 240
acacanaatc cttggacatc ggcaaaaaaa tta 273

<210> 15691
<211> 265
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15691

agctntcata agtgaaatca ggtgcaacca tctccctaag agtcctctca tgagggtggag 60

gttgagccat gttctcagta tgaaagttag tagtggaatg ttcaaatca gaatattcag 120
aatcaccctc aacggaatgc atagaatgac caggatgcac actatgcctc actaatctat 180
gataggttct atctatntca agatcaaagg gttgtaaatc acctggattt cccttagtca 240
tgcactatat gcaacaaata atgtg 265

<210> 15692
<211> 124
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15692

gctatgggga agtaccttgt catttgagga tccttaattt acgaatctcc attcagttgt 60
ctagtataa atttgagct gctccagcac ttaaagtatt tggttcctac tcttnttct 120
aatc 124

<210> 15693
<211> 272
<212> DNA
<213> Glycine max

<400> 15693

agcttgccctc attgatgtcc aggaaggaca aggcggccga atgatctagt tccgctccgg 60
agtacgacag tcaccgcttt aggagcgctg tacaccagca gcgcttcgaa gccatcaagg 120
gatggtcggt tctccgggag cgacgcgtcc agtcatgga cgacgagtat actgattttc 180
aggaggaaat atggcgccgg cgggtgggcac cactggttac tcctatggcc aagtttgatc 240
cagaaatagt ccctgagttt tatgcctatg ct 272

<210> 15694
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15694

gaaaaaagat caaaaataaa aaaagaaaag aagaagaaaa aaataaaaca aactatTTTT 60
ttggcacact agagcancct tttttttgaa accanggggg agttattaaa tgaggaaaat 120

agaagaaaaa aatatttttt ttaatgaaga aaagaaanag gggggggaga ggaaaaaaga 180
 atataaaaaa agtaaataaa gaaaaaaatt gaaatagaaa gaaaaaaaag aagaagaaag 240
 taagaagaaa ggaaaaaaag agaaaaagaa ggagaaagaa aagagaaaat aaaagataag 300
 gaagagaaaa agaagagata gaaagaagga ggagaaagaa agaaagaaaa ggagaaagag 360
 aagagaatga gagaggaata tgtaaaagag agagagaaaa agagaaaaag aaggagagaa 420
 aagaagaaaa ggaaaaggga ggaaaaaaag aaataaagaa 460

<210> 15695
 <211> 251
 <212> DNA
 <213> Glycine max

<400> 15695
 tgtaactcaa taatggaatg gtgggacaca tcacaaatga tagtaccact ttgttaccat 60
 attacaatta gagttttatg ttcaatacga aacgaataga gacgaaaatt ctacgaattt 120
 gattttgact cgacatgatg tgatttgcta aaatgtgtgg atatgatata ttaaataaat 180
 agcatcaacc cgttttaagg aagaatatct gaaatattag aagacattaa cactaataat 240
 atcgaagata t 251

<210> 15696
 <211> 288
 <212> DNA
 <213> Glycine max

<400> 15696
 agctacaaca ttttaccact tccagggtgc tggaactact tctcatggac ttgatggggc 60
 ctatgcgagt tgattgcctt ggacgaaaga tgtatgccta tgttgctgtg gatgatatca 120
 acagatttac ctgagtctac tttatcatag aataatcata cacctttgaa gtactcgatg 180
 agttgagtct gagacttcac agagaataac actgtgtcat ctatagaatc aggattgacc 240
 atagctgata ttctgaaaac agcatggttt ctgaattctg cgcatctg 288

<210> 15697
 <211> 285
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 15697

agctntgatt gtgtctagaa gaaatcacat gtntgtcatc atcggacatg gggagaatgt 60
gaatgtatgt atacatgatt ttgatgatgt caaacaagaa tctaactctg ctgcttcaaa 120
tgataagcat ttgcttcaag aataattcaa gattgcttca acaaacatag cctgttttta 180
agattcacta tagaccaagc cttgccttaa aacaaagtgc tttcaagaca tgcaatgctc 240
tggtaatcta ttaccagatg acagggttga taaatagctg ttgaa 285

<210> 15698
<211> 241
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15698

agctnttacc atttatttnt actctctgta ttattgatta ccagtttact gtaatcgatt 60
accagtatca aacattgttt tcaaaagctt tcaaactgaa tttacaatgt tccaattaat 120
ttcaaaatgg tgtaatcgat tacaagaatt atgtaatcga ttaccattgt gtgcgaacgt 180
gcccttntat gggcgagcga tagcgaagct cactggtgcg ctttccaaag gaggaaagat 240
g 241

<210> 15699
<211> 269
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15699

agcttgaagt tttatataat gaacctttat ctaagatggt aacagataca ggtgcaatta 60
atgatgatgt gaatagacaa acganagtat agttgactct tttgaacctt ataataaggt 120
gcttcttgaa ttatactttc atgtataggt aaaagacaac agttgtgcac ttgacacaga 180
caagtcaata caatatgtga aatttctaac atgtgcaatt gtgatactaa taatgttgtg 240
ttgatattct atcacatgta gcaattact 269

<210> 15700

<211> 132
 <212> DNA
 <213> Glycine max

<400> 15700

agcttcttat ctctatgcat acttggtggg gaagctcctt cgtccttggc ttattcccta 60
 ctggatagtg cctccccctt cctcttcttc tttttcttcc gctgcatctc catggtgtaa 120
 aatcaccatt ga 132

<210> 15701
 <211> 281
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15701

tcatgcaagc ttaaatttat attgcnaatc ctaatcatgc ttaacctaga tcacccactc 60
 ttaagcctga aatccaacaa tcacatattc ttggtagaca cttttactta atcacaattc 120
 acccttggct aaatcgtaaa catttgtaga acttcaaaat tattgagtta aacctcaaaa 180
 tggattctta atcaaactca tttcaaatta gacatcatat accatacata ccaatcaatt 240
 tacaccccaa aacagtattt tcaagcatca accacctaata t 281

<210> 15702
 <211> 292
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15702

tttcatgcna agcttttggg tagagttgag ttggtgcttg atgagtgcaa atgcctctct 60
 ttattgtaac ctcaagtatg tggttaataac ttctgttat atttaatcat cctccctaa 120
 gaagaaatat tatacataag attacttgcg taagagggtt gtctggtctt tggactaata 180
 tctctgaatt ttggttaactt atatgcagag acatgctccc tttatctcct cacctatgct 240
 tggtcagttc aaacttatta cattngtatt attattgtct ctatgtctct at 292

<210> 15703
 <211> 342
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15703

gtattgatgt ttcacagtct cctatcttac ttaacacggt tgtagtggt gccacatgt 60
ccaaatcagg aaagctcagc tntgcttcac ggagtcatt cataattcca tttatgtaca 120
tgatctccat aaccatgggt aatgctggat tatcatcggt tataactcca atcaagtact 180
taagggtttt tgaggcacgt aaggctgcac ttttggtgt aaaaatattc agagaangga 240
cagtattgtg agctgcataa agtgcacca tcattccttg atacaatatt gtctccatta 300
gtttttgtag cttagcattg tagccttggt cttcatcctc ac 342

<210> 15704

<211> 275

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15704

tctagctntt gattggaacg agagaatcag atactcaccg gtcgggagaa ttgaacaccc 60
acctttgtac ttttatatat cgctgaattg tgtcttatat tattcgcaag gaatatacag 120
ctctgtaata cctgataatc tatatgcttc tcatacacga tatcaattaa tttgcttctc 180
ataaaggata tcataacctc cactgctcgt gagcgtaatg aaaaagacta tgtgcatgag 240
atcacatact cgctgcagct ggatcatcca tcatt 275

<210> 15705

<211> 273

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15705

agctngaatz atgtatagat ccttgattct tcaatggcca ccacaatgtg atcaaacttt 60
gatatcaatz ttctaagcac cttttcaatc accaattggt ccttaatttg ttctccacaa 120
cacttcatct ggttggtgag tgtgagaatc ttggtgagat actcaactac tgattcagtc 180
tcctccattg caagaagctc atactatctt ctcaatgtct gaagtntcac cttctttatc 240
ttttctgcaa cttcatgact ctttacaaga atg 273

<210> 15706
 <211> 171
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15706

gaacaacaac attctaagta ttggatcaac ataacataaa tttgagtttt cataanaaca 60
 atattctaataaatgcttttt atttaagtaa tgaacttcta aacatgagaa aatgtggatt 120
 gacattatgt tcacattatc atatcaaaca tttaatcatg aatgtagtga c 171

<210> 15707
 <211> 318
 <212> DNA
 <213> Glycine max

<400> 15707

gggatcctta agtcacctga tgcattgcaag cttactggat gtgaacaact tatcattgtc 60
 agaaatgtgt ccgcattgat tggtaaactct gtatgcgcaa ttgctgagta atgttaagat 120
 ccaggtacat tcagcatacc ttgtattata tggaatagta agctggacga tgccatgcta 180
 tatttatgag cttctattag tgctatgcct cagactatat ataatactct atctctaggt 240
 cccttgcagt cgactgatgt ggtaattcat ctagcttata gaagtgttga ctatcctgtt 300
 ggtctcatag aagatgtc 318

<210> 15708
 <211> 298
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15708

agccttgggt gatcttgtac aataacaaga catgtagat tgtgacttag cactntaatc 60
 ctcttagcat agtgcttcag caattntgggt acccaaactt ttatgttcag gtttgatccc 120
 atatttttca aaaaaaaaaat aatggttgaa tatatgttat taaaatcaat ntatatatca 180
 cttatctgga gtatgataaa ttnttcaagg ctttaatttta tctttttgtc tcattcatta 240
 tttattttat ttaatntiat cctcctaata ataaaatctt taatttgatt gcttaatt 298

<210> 15709
 <211> 294
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15709

agcttatgac tttataacaa gaganatggt atggaagact gtggactata aaagtgtgca 60
 catggttcat atacagacta cacaagacat actagtgcga gaactccaag tgggtgaaact 120
 aaggacttcc tattaggata ggggttacatc aagggtcaac tctaagtcct tgtttaatct 180
 aatcttggac gttcttatca atgacacaca aaagataatt cctaattgca tgctctttgc 240
 tgcatttttt tcttttttat cagcaaaaat agacaattat attaataaag tacc 294

<210> 15710
 <211> 285
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15710

agcttgagat gtttgatggn gacccggtgt tgagagaaac gaggatatgg gctacgtggg 60
 agtacgtgag ctcagttgga ggtgggcaac angggatggt gggtnatgc gcgcattgtg 120
 gatgtggaaa acttgttgtg caccatcgcc cgaccgccac ctagtaccac atgtgatggg 180
 taccocataa tcctacaagc ttgagatgag gaagtgttga aggggtgaaac ttctgcttn 240
 tattgttgac cacagagtgg tacctggaga tatgtcgcg gggtc 285

<210> 15711
 <211> 295
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15711

ttattattct tatcatgttc acattaaatt caacatgatt ntttgcttaa atcctatgct 60
 tgtgcgcatg aatgccgaca aatatttatt gcttgaatga gaagcattta gtgtgggaaa 120
 agtactgtca ataaaagtga aatttaattt gtcaatcaag gtccaattgg accacacctc 180

tgtcattgtg aatatggcaa agaaatgaag cttccagtgt ccgttataaa aacagggttaa 240
 tgttgtttcg ttttcgttgt cttcgttaga ggcataaatt aatgtagag tgtgt 295

<210> 15712
 <211> 292
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15712

ttttttcact tcatacatct ttttcttctg aaaatatatt tgaaaattnt aacaacatta 60
 atttaagtat tcatattaat atagtattgg ttaaaaaatt aaataaacat tgatttgaat 120
 gcaatttaca aattattaga tatattatca atccttaaac caaataaaat ataaattaaa 180
 ctacattata ctatgatata tnncaataat tctattaata ttgatcacta ttgctaacaa 240
 tngatttact gctatatatt tgatattgat accatataat actaattacc ta 292

<210> 15713
 <211> 213
 <212> DNA
 <213> Glycine max

<400> 15713

tataattaca aaatgagaac aacatgtatt ttctcatttt acagaaaaca gattgttatg 60
 tatagatagt tatcattgat gtataagtac taatcaccta aatttagaaa taattttatt 120
 ctggatcttt ctctgtcgca ttcttctttt tcttcaacaa cactatcatc aacatgagac 180
 ctcagaacta caaagttgtc accattgcac act 213

<210> 15714
 <211> 280
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15714

agcttatgac gttatgaact caatatgcat tgttattntn tatcaatatt cttttcattc 60
 tctaateccc atacttgaca tcagacgaaa aattgtgcat cctccaaaat atgtccatat 120
 gaaagaacac aacacaacta aacatgaaga tactcacgag agtccatctt gaatcgaatg 180

gtgagtataa tggttgcact atatgtcagt atatggtgga gatataccaa tgagaggaag 240
agagatgccca atgctatacc taatgttctc atgaatgaaa 280

<210> 15715
<211> 237
<212> DNA
<213> Glycine max

<400> 15715

gaatcaaaag aattctcaca ctgcgtcgtt ctgaattctt tgacaaggga gaatggagac 60
acacaataat gcatacgggtt gtcccttggt ttttggaaa gagagatgag agacacccaa 120
tgattcttgc ggtagtcct tggcgaattc ttttggcaa tggagaatag aatgacaaga 180
taaatagctc atgttttcaa cggtagata accagaaaac ttcagaaagc ttttgg 237

<210> 15716
<211> 270
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15716

agcttgaatg accatttgat agccatgttg gacatgccaa agggtgccat aagtaggtag 60
ttttgctttt gaatttttag acagaaatgg ataaagtaga gggacaaata gtccattttg 120
aaaaaactta ttgtcaacct ctttcagata tgaatatacc tgattcagaa gggaagaact 180
tgcacataa tctcaatttc aattgaaaca tgggtttgat tcacactcca tgttctgaga 240
aataatntacc atccaaanaa aggagagata 270

<210> 15717
<211> 126
<212> DNA
<213> Glycine max

<400> 15717

actccccctt gggtttgcaa tgattcctta tatgagacat ttgaagatct catatttttc 60
atatgtaacc aattgcctca taaagaataa ataatttttc ttactaattt atcttttatc 120
tttctc 126

<210> 15718
 <211> 247
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15718

tctgcttggt tcgaggtact tacccgttga agatcgaaga acgatgaaga acgaatgaag 60
 aacgtcgaag aacgattgac acctctgcga aattcttcac ggaaaacgtt acggaaacgt 120
 ttcggaagcg cctcggtta gattntcttc acggaaacaa tctttccaag caaattcgaa 180
 agagagagaa gtgcctaagg ggctgaaccc tntccttctt cacttctctc cctatttata 240
 gcaaaat 247

<210> 15719
 <211> 269
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15719

agctntgaat gcactattca atggagttga caagaacatc ttcagactga tcaacacttg 60
 cacagtggcc aaagatgcat gggagatcct gaaaatcact catgaaggaa cctccaaagt 120
 gaagatgtcc agattgcaac tcttggttac aaaattcgaa aatctgaaga tgaatgagga 180
 agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgnctt 240
 gggagagagg gatacagatg ataagctgg 269

<210> 15720
 <211> 297
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15720

agctatctta agttttctgg ttttccaaac tcttgaaaac aaaacttggt ttattcatct 60
 ttttcattcc cttctccctt tgccaaaaag aattcgccaa ggactaacca cctgaattct 120
 ttctatgtct ctcttctccc ttttccaaaa gaacgaagga ctaactgctt gaattctttt 180
 gtgtctccct tctcccttcg caaagaattc aaaacgacac agtctaagaa ttcttttgtt 240

tcccccttca cacagtttcg aaggactaac tgtctgagaa ctntgtctta acacatt 297

<210> 15721
<211> 296
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15721

agctggaagc ataatgtaat caggttctta tcatcaaaat aagcagcttt aaggcacaca 60
tcatctaaga gctaatatca aattgaagct agttataacc cctaagttta gaaaagtgc 120
cgtatgagct ttaattaagc atcatagata aagtaaatta aaacttcatg gagaaaaatg 180
ggaaagaggt gaggtgaaat ntataacgaa ccacccata acaaattttc caaccattat 240
tatggaacaa aaagaanatg agactttcaa aacaatatta tacccttaga caaaat 296

<210> 15722
<211> 290
<212> DNA
<213> Glycine max

<400> 15722

agcttaagaa tttacactct ggagcttcat gatataatga atgttgtcaa gcttttaatt 60
tctccaactt ctagtgttac acctctaaac cccctctgttt taactgttgt ggggagtggt 120
atatgaaccg tacgggttgg ttgattggt gtgaaaatca tgcaaagagg aaaatgaaac 180
tggctgtcta aatggccatt gatgtcatat tctaaaatgc attctgaatt ctgattctaa 240
agcttcattg tgtactattc acaatgcata tactatgcct gctgtgcatt 290

<210> 15723
<211> 300
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15723

agcttctaaa ctttatacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60
gatatcttaa gaaggggggg ttgaattaag atattccaaa ttacttcccc aattaaat 120
ctatttcact ttctactcaa gttataaatt tccttaacaa tgaacttctt aaatattaat 180

tcaaataaaa acaatttgaa tataaatata aagcaataat aaacaaagga gtttaagga 240
agagaaaagtg caaactcaga attatacctg gttcggccaa acccttgtgc ctacgtcaag 300

<210> 15724
<211> 260
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15724

naagcttggt tcctagatct tcctatctan tttttctttg ttaaattattg tgagccaaag 60
atattttcct tgtgtgtgga aaatctgctt actaatgtaa ttatgagtta gcaggaatgt 120
tgtgccatag ttatacttc attgttcttt tttttttttt tttttttaa ttattaagat 180
aatagtcaac aagcatgtta tgggctcaga ttcacgaaaa tgctctccat ccttgcacac 240
anttgggtgta gacactatga 260

<210> 15725
<211> 272
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15725

agctntacat gtatatactc atcagagtag tctncactct ccacataaaa gaaagtaagt 60
ttagttacaa ttcttttccc cacatctttt cctgaaactt tgtatatattt tcgtgtatgt 120
ttagttacta agagggaagg atcaagacct gaagctccat ctgtgaaaag tattaataac 180
tggagacttc agtgggtttt agcacaatgt ctcacagaca cattggatag aaaggacang 240
ttcaaatttt cttggctcat acaatgctaa at 272

<210> 15726
<211> 282
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15726

agcttatcta gttntaatgt taagcctatc gaanattgtc tggacctgca tacttgacat 60
tcttgatatt gtcttatgca cgaggagtgt gtttaagaata aagatctccc acattgcctg 120

tgaattcaga' caaaatactc cttatcttgg gtttaaataa catccacaac cacaattgtg 180
gctacaatac caatgtattn tgactcatca caatgcaacc gcaaccgtaa ttgtgatcgc 240
atcatctgca tctttcccga atatataggt tgtttaactc ac 282

<210> 15727
<211> 285
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 15727

agctttcaac ttatgtcttc acaaataatc atcacacagc agaaaactaa caaatctacc 60
catcatatct cccaaaaccc catacccacg anaatcaaag gagaaagaag tccaccata 120
cctgatattt cgaagtccca ctctagcca cgcacttcac gactccaaaa atgcctcct 180
ttcgcgattt ggagcagaaa tgagcaccac aggttgagc tctgttgggg tttcaatgga 240
gaatggatga gaagggaaaa agcacgtcat gaagatggag agctg 285

<210> 15728
<211> 266
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 15728

agcttatccg atcaaagttc ttgttctgct tcctttgcat tgccttgtga gaatctgcag 60
cattctaaca ttgctntcac ttctatgct gtctataggt ggagtcggca tatcaaacat 120
gatcttgaag attcaaagga atgaatacat gggatttnga taattttgca ggaatgatac 180
atagagcttt tcaagtatct ttttatttgc acacattntc tgtttgttgt ttgccaccac 240
caaaccacct gagaggggat gatatg 266

<210> 15729
<211> 76
<212> DNA
<213> Glycine max
<400> 15729

ttaattattt cacctacaca tcaatattac taatcatgta aatacaaact ccctacacaa 60

actatctggt cctata

76

<210> 15730
<211> 234
<212> DNA
<213> Glycine max

<400> 15730

gcatgtttct cttaatggct aagatgatga atcggaaggg tgggtcgtca tcatcatcct 60
tagtcttcga tatagtgaag tgaaaatgtg agatacccag tattacgttc acatcgcata 120
gtgtgaacca tccatggaga atgtttggga gatgccact ctacaacata agcaaagtgt 180
gattctctgt tattttttat ggtttattct cttatgttgt ttggttattt ggtg 234

<210> 15731
<211> 254
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15731

agcttatcat attccctttc aaccaagttg aattctcaaa atgagtcttg tttatcaaaa 60
tagagagtac cctgaagtaa agtcggtctc actatacaaa atcattgcca agagtctaaa 120
actttacaaa cttatagaac ataagattta gaanaagaac aatgaatatt cacaacagct 180
tcagatgggtt ttaccacggc aagcgggtcc ttaaagaact agccttggtc attacttgaa 240
taatgaaaga caac 254

<210> 15732
<211> 368
<212> DNA
<213> Glycine max

<400> 15732

agcttgaaaa ccaaaaaagc acaatcaact gccacaacaa aatgaaaccc cacattacca 60
ttcttattga tacttttata tggtagcca agtggacaaa atgaccaat aatttgataa 120
gaaccttcga acaatgtcac cgactgatt aagaacttac taagaagagc acaaaactaa 180
ggtagagctc ataccttggt aactggaagc gtagaaagct ttgagctttg agcacctcg 240

actattccaa gagcagtgtg ggggttttttc gacccacaca gttccaacag cagtgtaggg 300
 ttttcttcga cttttcttcg ataggagggt ctgtgggttc tatccagcga gttttgatag 360
 tatcgaaa 368

<210> 15733
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 15733

tatttgatgc atcatgactc ttgactgcac agttccacat tactcaccaa gaccacacag 60
 attattggca tccacattaa tgtgggtgac ggtgcatgtg agtgaacaat gtgcagttgc 120
 acacatcata gacaaatctt cattgcatca tgactcttga ccgcactata aagcatgggt 180
 gtgggttaat aaagcatcat attattaaag aaaatttaaa ataacaattg aaaagcatgg 240
 aacaatgaca aatacatgat aaagactaac aaattattaa aatcaataca acaaagttgt 300
 taaattattc attataattt cagggaattc tccagcttct gctctatctc cacccaactt 360
 aggtcattaa cataagaagg tgatgatgaa ttatgaatat caattt 406

<210> 15734
 <211> 354
 <212> DNA
 <213> Glycine max

<400> 15734

tgcttgaaga caagactata cgaggatatc tccttgggta tagcaatatc tccaagggct 60
 accgtgtcta caacttgcaa actaagaaac tcgtcatcag tgcagatggt gaagtttatg 120
 agtatgcttc ttggaattgg gatgaagaaa aagtggagaa gaatgttctt atacctgctc 180
 aactacctca agaagaagct gaggaagaag acccaggtga accaccttca cctccaccac 240
 aacaacaaga tcaagaacta tcatcaccag agtctactcc aagacgagta agatctttgg 300
 tggacatata tgaaacctgt aacttggcca tacttgaact tggaagcttt gaag 354

<210> 15735
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 15735

tcacttacta tatccctttt ttacataaa tatcttgcaa ataaaatgga atatgaattt 60
atcaaagacc tcaacacaga tcatgatgat tggtttctaa aagtgtgtat tgttcgattg 120
tggaatatatt ataacaagaa agatgagcaa cacccaatgt tattggaaat gatgttgcta 180
gatgaaaatg taactaataa cgaatgtcga attgctcaaa aacaaataaa attaggaaat 240
ttttagcac atgattaacc tcagtcgaac tcaaaaatat gattcaatat ggttcctacg 300
ttcattcact tataaacaca aagggggaat tttatcgaat agtttgtgag cgattacaaa 360
ggaatgcgaa aacacaaaaa caaaattcaa gaaacaaaac aaaata 406

<210> 15736

<211> 351

<212> DNA

<213> Glycine max

<400> 15736

agctatgggtt ttcggaaatc tacactccct gttgtctttt ggggaccagt ttctcatgaa 60
caggggcttg accaggaatc atttgatgg gttggatatg gaattcaggt tgttcctggt 120
ttgatgggtgc tttggtggat gatggagatg atggtacaga gggatgaacca ggagctgaag 180
tttcttttgg tgaagtagcc atggagaagc acagcttttg gagtggtttc gtgaatatct 240
gagaagtgtt gaggaatgct gatgataacc agattgccac taaaatatga gtttgaatga 300
tgaatgtaga tggacgtgtg aagcaacggt cgaatttgtg tttgccagt a 351

<210> 15737

<211> 409

<212> DNA

<213> Glycine max

<400> 15737

ctcagcttca caagcaagct tccatcactt tctctccctc tccctccact catcttctcc 60
taccttcaag ctcttaccba tggttcccta tgttggtgag ctttttcttg actcatcttt 120
tccttgaagt ggcgtctcca atcatctttc ttccatctcc attctgctac cgttaaactt 180
caagaagcaa gggactccat tgatgaagat gatccaaggc ctatatgctc cacattgagt 240
tacattacga aaaatacttg tttgaaaatg taaacaatta caaaacatat tatatatatt 300

tatatatttt aaattacaca cacacacaca tattcaagtt ttacttaaac taaaaaatac 360
 ttaaataatg tatgtgggta ctagaatata ttacaaaact aactaattc 409

<210> 15738
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 15738

agctttaaag tgactcacat acttcttaat cgtttgatta tgaagacttt ttcttacaag 60
 tgaattgtgt ctcttgagtt gcagaagaac acctccttag tcttgtaagg ttttttgtgg 120
 aaaagattaa tcaaattgta aatctcttta ctcatctttc tatgtatggc ttacacgctc 180
 ttttggttat gcatgaatca cttagggcat gctagaatat ggttttctag tttgggctaa 240
 gagtaagggtt ttcttaagct tgtattcaca tatgacccta gtgttggttg atgtagctcc 300
 ctttgagct tgtatgcctt ggatcttctt catcgatgga gtcctttgct tcttgaa 357

<210> 15739
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 15739

tgaagtgaag attacaacaa atgtgcttaa attggaattg gaggggtccaa attgaagtcc 60
 ttttatggag aagataaaaa aaattgcaaa gaaaaaatca gcttttagcca aacagctttt 120
 ggcataaact gaatttatac aaaagtgcaa aactgcaaag ctgcaatata tctttaagcc 180
 caaaattttg acttaataaa acctcgctt aagttgagat ttttaggatt gtataaatag 240
 atattcacgc taatttttaa ggacacatgt tcctcacttt ttaaaaacat ctcttttatt 300
 aaagttcttc tccaactctc ttcttcatt gatcttcac ctttcttgct tttggatgct 360
 actcatggag atgggtagct aagtccttcg ttgttgga 399

<210> 15740
 <211> 367
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15740

agtctttagt aacgcctgga catgatatat gtcaggggtgt tggtttggcc agcgggttcag 60
 ggataaagga atgtcccaca ttatttccat gacatgcgtg caacaatgat gattcaaaaa 120
 ttttatgcaa aactagtcac gcatgcacct atgtggacac tcaagcatca agttttgtgg 180
 tcatgtgata ctaatgctta agattaattt ttctatttta agtcaaccca gtgtttccaa 240
 aacatgctct tttataaatt catgcattca tccgagtcca ttttgggtgt tccgggaaaat 300
 nttcacagca ttcacccttc aagtgtatac acattttgtc aacaaaaccc ttttgtgttt 360
 tgatcgg 367

<210> 15741
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 15741
 tcaagtgcta atataaagta tatatgttgg catttgataa atactattac cgatagtgat 60
 ggccaaagaa ttaccactac atcccacaat actattttta ttatcataaa acatgcatgc 120
 tagatgtcgt aacctaccct acaaccggac gatgaaagga aataagacaa aagcacgttc 180
 atctcctatg gagaaaacga gtgagagtcg ccaccaacgt ttatttgagg aaaatgttag 240
 aaaaatcaaa aagaggtcta cgaatttgaa aagaagggtt caagagttgt ttaatcgagt 300
 gtgcaataaa aataacgtga ctacaaaatt aattattttt cccaagaacg gtgaatttct 360
 tttcttttaa tatattattt ttatttattt aatatttttt 400

<210> 15742
 <211> 342
 <212> DNA
 <213> Glycine max

<400> 15742
 gtatctatcg cttgaacata gaactgccac atctcccatc ataatgatgc ataatctata 60
 accaaatact cttactaagg gggtcattca taagcatcta ctatggcact tctagaatgc 120
 gactgattat aatattctct agaacagcat cgtatctggc ttctgaccc gatctgttac 180
 tggtaacgtt gatattctca gcataccaac aacgtgtact ataccatcaa aaagtatggg 240
 tttttagacc tggctgcttc tgcattacat gcaggtgtag aaataaattc atatgaacca 300

gcgccctacc ggaagctatc agttttccaa tacctctgat at

342

<210> 15743
<211> 366
<212> DNA
<213> Glycine max

<400> 15743

gttgatgcgc ctttcgatcc ccaccaaagt ctatcccaca tacgttgaag atcgtccttt 60
agagttgtcg gaagcacgta tatactcatg gtgtaatgaa ggaattgac gagcacaaga 120
tgtaatgaga acttccttac cagctgtggg aagatacttc cccaatctgt gatatgatgc 180
atttccaaat tcgatcctct acataattgg aaattgcttt ctttgctctg cacatgataa 240
atgagaggcc caagtatttt ccagacccta tgattgtata gacaccggaa cataacatga 300
ttgagtgcct caaagattgc tgagtattgt tgctacacaa tatatatgac gtgtctaagg 360
tgatca 366

<210> 15744
<211> 318
<212> DNA
<213> Glycine max

<400> 15744

atcttcatgc tctcaaatat gacaaactat ttgtctgccc ttctctaaaa ttgctgatat 60
tgatgcacct gctcacgaga tattatagtg taatgctgca ctggccactt cgcgggattg 120
gggtagtatt atcatacctc tatgtaactt ttttcaacat cacctaaaat gacttgaaga 180
agctccattg actgtggact ttctggtgaa ggatcaaaaa tgaaacatta ccgaatgtat 240
aaatgataac tccgttccat gttatacttc ataccaaaat cagttaccct attactaaat 300
atactctgga ttctcttt 318

<210> 15745
<211> 260
<212> DNA
<213> Glycine max

<400> 15745

caacacagaa catgaaaacg gcgggggcga aacgagaacc gctcgatcgc gcaacattta 60

cgacaagaaa gaggagcaac ccccaacgtt attgcacatg atgtggaccg acgaaaacgt 120
 cgcaaacaaa caaggtctga tcgcacacag ccaaatgaaa gcaggaaatt tggccgcgca 180
 tgattagcct caggaggact ccacaatagg agacacaatg gttggaaccc ccattcacac 240
 atacacacaa aagggaatc 260

<210> 15746
 <211> 101
 <212> DNA
 <213> Glycine max

<400> 15746

taaactaaac tctgtacccc aggtgtcaag gaactgattt ggactatgta gacagtaacc 60
 tcgtaaacad taagcatctg tgtctccac aatgggtcaa a 101

<210> 15747
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 15747

ttagatgtta ggtgatgcaa tcctactttg caaggtcatt ggatagaaaa ctccaagttg 60
 attgggcctt agattcaaga tagagccctt aggtacttat aaccttatgg taaatttctg 120
 gcccatgggc taagtatgaa ccacttatg tttgcaaata ttatataaaa gcttcattat 180
 tcttgggcct tgtatttacg gctccctaata gtatgtacgg taccctaaat atataagatt 240
 cttcagccct tgtgtttaag ggcacctaaa ctagtgtttg tattaggggt atgttagtaa 300
 ttccacatgc actaagtgga tatttgatgt gtgtggaatg aaattaaatt aattgagttg 360
 gttc 364

<210> 15748
 <211> 314
 <212> DNA
 <213> Glycine max

<400> 15748

atctttcagc aaattcaaac gacaataact tttttactca gatgtttgat tgagtcctcg 60
 gatatatcga gacgatcaac attgaatttt gaggttccga gctatttcaa acgataataa 120

ctttttactc agacgtttga ttgagtcctc taatatatct agacgctcga gattcaattc 180
 tgaacctcat agcaaattga aacgagaata agtttttact tggatgtctg atggactccc 240
 gtaatatatc gagacgctgt aaattgaatg ttgaagctcc gaccaattca aacgacaata 300
 ctttttactc ggag 314

<210> 15749
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 15749

tcaacattca atttcgaggg tctcgatata ttactgtact caatcggaca tccgagaaaa 60
 aagttattgt catttgtatt tgctcagagc atcaacattc aatttcgagc gtgtcgatat 120
 attacgggac tcaatcggac atccgagtaa aaagttattg tcgtttgaat ttgtcagag 180
 cttccgtatt caatttcaag cgtctcgata tattacagga ctcaatcaga catccgagta 240
 aaaagttatt gtcgtttgaa tttgtcaga gctttgggat tcaatttcga gcgtgtcaat 300
 atattacagg actcaatcag acattcgagt aaaaagttat tgctgtttga acttgctcag 360
 agcttccgca ttcaatttcg agcg 384

<210> 15750
 <211> 316
 <212> DNA
 <213> Glycine max

<400> 15750

agctttcgta agtgaaatca ggtgcagcca tttcccttag agtcctctca cgaagtggag 60
 gttgtgccat gttctcaaaa tgtgcaaaat cagaatgctc aaaatcagaa tgctcaaaat 120
 tataatgctc aagatcagga tgttcaaaat caccaataac agaatgcaca gattcaccag 180
 ttatggaatg ctcagaatga tcaaaaggta taaaatgatg cctaactaat ctatgaaatg 240
 tcctatctat ctcaagatca aaagggttgt agtcagatgg attgccttta gtcatacact 300
 acattcagca tgcaca 316

<210> 15751
 <211> 405

<212> DNA
<213> Glycine max

<400> 15751

gaccttagaa tctcagctca catcagaccc ttccgggtgc tggaactact tcacatggac 60
ttgatggggc ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgtgggtgtg 120
gatgatttct ccagatttac ctgggtcaac tttatcagag agaaatcaga cacctttgca 180
actgtcaagc acttccacat ctttgggaagt ccatgttaca ttttggcaga tagagagcaa 240
aggagaaaga tggatcccaa gagtgatgca ggaatattcc tgggatactc tacaacagc 300
agagcatata gagtattcaa ttccagaacc agaacagtga tggaatccat caatgtgggt 360
gttgatgatc tgtctccagc aagaaagaag gatgtcgaag aagat 405

<210> 15752
<211> 126
<212> DNA
<213> Glycine max

<400> 15752

ttcttgggca gatgatagca gtcaccogtc ttatgcataa cagccctatt gcatcggtga 60
tcctttaata gggtgggggtt attacttgcc ttctatatac aaaaacaagc cgacatggca 120
acatat 126

<210> 15753
<211> 281
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15753

tgtcacccca tcaaagactt agtcttgtat gcatattcta gtattatcag tatgcactaa 60
tcaacatttg aaaatggctg cngtatccc acggtcgta ttgaatcca caacacacta 120
atagtgactg gttatcaatt gaaatgagtg tttagctata aatacaacat atatcttttc 180
cagcgagctg atgtttttgt ttacacgtga cgaagtcggt gttcaagtac taatgaccag 240
tacttttata ggagactata cagttgtcgt cataattata a 281

<210> 15754

<211> 479
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15754

ntagaggcct tnatagaact gtggcgcttt gattgcattc gactcaccat angcgcgaaat 60
 nacaccctc cgtgccccg tgactccttt tttagtctac tctgcatgca tgcatactct 120
 aagctatccg agatctgacg tctatagaca gttgttctga tgcgtcaatc gtttataaccg 180
 actcactgat tatacgacat tcatgactaa ctcgttacat cgatggcgta gctaaagcca 240
 atagtgtgcg gataagatgc gaacctaata tntcagtatg ctgatcatta gcattggtgc 300
 acttccctaac caagtgagaa actcttttag accatctagc attttggttat tttcatgctg 360
 atcacaataa aagcgctgct tgatgcaagc attctaacat taaaaatttt agcatgacgg 420
 attgtgtcat atatataaca cctttctgaa cttttctacc tacttaataa tgggggttcg 479

<210> 15755
 <211> 515
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15755

ccctaccatc nactctagc tacatgatta ggttatcgaa aatccgacaa aacggtcatt 60
 gtccctaacc gccacaacga aactganect tgaaactgat acctcgctat caggacctta 120
 caatctcagc tagatctcca tcaacttttg acttgtgaac tttgaaccaa aaactctgga 180
 catactgctg ggatcgcttc cgtggcataa gattcccatc aggtattaag aaaatcgtga 240
 agaaatgaat ctacaaaata atctcccatc tatgtctata cacagttaat gaaatttgcg 300
 tatgagaaac aggacattat ttcgttcaat atataaaatg gataccagca cgcacgcgcg 360
 gaacacattg tagcacacta tctgtcccca aatattcagg atctagatat tagcgataaa 420
 attccataaa aagaacgctt cataagctta atgcataata atgattaact gagtctaata 480
 ataaaaccgt aacacatcca gatagtctct aaacg 515

<210> 15756
 <211> 423
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15756

cttgatcctt tgancctgag gcattgaaan ccatgcgang ccgctcacgg acgccctccc 60
gggtaccoga ggaatttgta nggggcacgc tttgcaagct ttgtcgggga gaacaatctc 120
gcacatatct acgtgttgag acacctctcg atcgataaag gctacatgac acgcgcgttt 180
ctctctctct cccatagccg tacggctcgc aattccagca tttttgacac tgtaggtata 240
ttccattgtc agctatagcg gcggctgctc atacaggttt aaggacggac ggctaccage 300
gtacctacct ccatacaagt ggatacatgg tgtgaataac atactagagg ggacactgcc 360
ggcgaaaccc cgcctaactc cggctctacc tcaatggcct catactacgc cctgagcatt 420
acg 423

<210> 15757

<211> 365

<212> DNA

<213> Glycine max

<400> 15757

tttcttttca tttgagattc aaatatttaa atttatattg gtggtggatt gcagtatgac 60
tatcagggtga cacagtaata ttaattaata gataaaggat gcaaatttaa gtattaatga 120
gatactaacc tttatttaca taaataataa caagtaatat gaaacttttg aaaaactaaa 180
agattaaaaat ataaatttta aaaatattaa taattaaaat aaattgtttt atacatatag 240
gtttaaaatg aaaactttag aaaacataaa aaaattaaaa tgaggatttt aaaaacataa 300
aagatctaaa aaaactttga aaacttaata catctaaatt aaaacaacac taactatgat 360
ggatc 365

<210> 15758

<211> 404

<212> DNA

<213> Glycine max

<400> 15758

tatccttgat ggaaataaat tatttatcat agttgtggat ttcttgtgga ttccgaagcc 60
ttatctgttg gtaaggctgc tgttggaaac ttattaggtg gaatcggcta cttctatggc 120

cagtcaaaga ttgctctttc aagaatcctt aatgtaagtt actttatttt gttttttata 180
 gtccttattg aagtgtatgc cacccttaa tagtgcataa cttgacatgt gattatcata 240
 aatgtgaaaa ctttgtttct tgtgtttgat tttctgttga taaagaggag attttagaga 300
 cgagaaaaag aaatacgaga acagaggatt gctaaccaac aaagaggatt ctagccaaat 360
 taaaaatttc ttcagttgca tccataaatg aattaatgct tact 404

<210> 15759
 <211> 54
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15759

tcatecgctt attatcactt attcangcgt taacaccatg cgtttatgtc acct 54

<210> 15760
 <211> 135
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15760

gtgcggtatt tcacaccgca tatggtgcac tctcagtaca atctgctctg atgccgcata 60
 gttaagccag ccccgacacc cgccaacacc cgctgacgcg aacccttgc ggncgcatca 120
 aatataacta cgtan 135

<210> 15761
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 15761

agcttggtgc ttatgttgaa aagcacgacc acggaaactg gcattcagtg cctgccaaag 60
 cgggtaataa aacttttttg tattcctttt tactcaatct atgaattgag gttttaaat 120
 gcggttgcaa atacatttta gatttgatgat gatccttgat attgtgggac attgtagaca 180
 aatgcagtcg atcgataagg ttgcaattgt agttgcaatg tgaatgcaga tattccta 240
 tttgtttgtt acatacattt atatctaggt cttcaaagat gtggaaagag ttgcatgctg 300

aggtggatca attacctcaa gccagatata aaaagaggaa actttatcat ggatgaagac 360
c 361

<210> 15762
<211> 401
<212> DNA
<213> Glycine max

<400> 15762

tgggtgatgg gcggccgaat caccttgcta ggtgtgacgg ggactccgaa cgactggcag 60
agtcctgtga tcaaggcggg aaatcccagg gccctgttgg acttatccgg gtccagaggg 120
tgccctggtag gcgccatacc tgcaaatata tagatggcat cagtgattag ctgagccacg 180
tgaatgctca tccgtgtcag gatggcgtag accagctgac acttcggcag ggggaggtca 240
gaattatgat cgctgggcag gatgttgcta agcagcaaag tcatccatat ctgagtcagg 300
gtggtcatgt tgggtgcgcat gatccgcacc cgtcttccgg cagcagtcgg ggcaaaatct 360
tgccccggta tacatagcaa ctgggtgatg gcctcctcat c 401

<210> 15763
<211> 349
<212> DNA
<213> Glycine max

<400> 15763

atcttgttgc ttatgttgaa aagcactacc acggaaactg gcattcagtg cctgacaaag 60
cgggtaataa aacttttttg tattcctttt tactcaatct atgaattgag gttttaaatt 120
gcggttgcaa atacattcta gatttgtgat gatccttgat attgtgggac attgtacaca 180
aatgcagtcg atcgataaag tagcaattgt agctgcaatg tgaatgcaca tattcctaatt 240
tgtgcttgcc acatacattt atatctaggg ctgtaaagat gtggaaagag ttgcatgctg 300
aggtggatca attacctcaa gccagatata taaagacgaa acttcatca 349

<210> 15764
<211> 400
<212> DNA
<213> Glycine max

<400> 15764

tttcattcat caaagttaca aaaagtgtta cacatgcttc tatttataga ctaggtagct 360
tccttgagaa gctttcttta aaaaacttcc ttgagaagct 400

<210> 15767
<211> 352
<212> DNA
<213> Glycine max

<400> 15767

cttcaacttc tgaccacttc caggggtgctg gaactacttc acatggattt gatggggcct 60
atgctagttg aaagccttgg aggaaagagg tatgcctatg ttgttgtgga tgatttctcc 120
agatttacct gggtaaactt tatcagagag aaatcagaaa cctttgaagt attcaaagag 180
ttgagtctaa gacttcaaag agagaaagac tgtgtcatca agagaatcaa gagtgaccat 240
ggcatagaat ttgaaaacag caggttcact gaattctgca catctgaagg catcactcat 300
gagttctctg cagccattac accacaacag aatgggatag ttgagaggaa aa 352

<210> 15768
<211> 398
<212> DNA
<213> Glycine max

<400> 15768

taaacattca atttcgaggc tctcgatata ttactttact taatcaagca tccccaaaaa 60
aagttattgt cgtttgaatt tgctcacaga ttcaacattc aatttcgagc gtctcgatat 120
attacgggac tcaatcaaac atccgagtaa aaagttattg tcgtttgaat tgggtccgag 180
cttcaacatt caatttcgag cgtctcgata tgttacgaga ctcaatcaga catccgagta 240
aaaagctatt gtcgtttgaa ttggtcaga gattcaacat tgaatttcga gggctctgat 300
atcttacggg actcaatcag acatccgagt gaatagttat tgtcgtttga attgggtcag 360
agcttcaaca ttcaatttcg agggctctga tatattac 398

<210> 15769
<211> 155
<212> DNA
<213> Glycine max

<400> 15769

cgttatgacg ttctcacttc ctctggccat aagaatcgga tgctggataa ggcctgcac 60
 cgggtgcatta tgactgggct gactttcctg atatgagcga tgcgctcact gcctgtatt 120
 cctgtccgga atcctgcggg cctgctgcga agtga 155

<210> 15770
 <211> 336
 <212> DNA
 <213> Glycine max

<400> 15770

tgtctgtttt atgccttgac ttccttatgt cgttgtgcct acctcagggc tgtatcatac 60
 gctgaagaac ctaccaacgt gcaccaagcc aggaacatc aaagcttgag ggaagcagtg 120
 acctgctaaa taaaggcctt agagtcaggt catcctcgct acgttgctcc cactcaccca 180
 tgagctcgtc taaggggttg atactgggtc tattcaagca agcggctctc tgactgtaga 240
 gtcttctatt acagaagcct gactcgatgc ctagaggctc tttgggtaga gagaatcaac 300
 tacgggggaa ctttctctct tgtaataaaa tgacca 336

<210> 15771
 <211> 238
 <212> DNA
 <213> Glycine max

<400> 15771

tagcttatcc ttatggcctg actccggact tcacgccccg tgccaccccc gaagaatata 60
 agccaagccc ctactttcga ggggcaactc ccaccttatg aagactatgc cgggcgagac 120
 gatggggaaa gagaatccca tcttggcccc ctgctgcacc tgaaagatcc gtctctcgcat 180
 gaactacccc aaccgaacat atgccgtata ccccggccta accacacccg taaaagaa 238

<210> 15772
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15772

tctagattag tgtaccagat gaccgaggct ccagccaagc tatcttgga gaagtgcac 60
 aacaactttt catccctaga atgcaccccc atcttgtgac aatacathtt gagatgggtc 120

ttaggacaag tcaccccttt gtacctgtcg aaatcaggta ccttgaattt tgggggggatg 180
acaacgtccg gtactgagca aagatcctcc atgtccgga atggatagtc gccaaagcct 240
tcaacagctc tcaatctctc ttcgatgaga tcgagtttcc ttttttcttc tgctgccagg 300
gggtggccctt ctacggacaa gaatattggt tgtgctggga ggtttcgagg ttctcccgtg 360
aggttgggct gangtaatgt gttgggtgt 389

<210> 15773
<211> 352
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15773

ctttatgcaa gtcaattttc aggaggtatc tcggagagga tcttttccgg gcatatttgc 60
gcaaaatctc ttgaactagg aagatgttgt ccatcatctt tctgttctta atgaaaccag 120
tttgagtttc tccaataata gtctcaagca ctagggctat gcgattgacc aaaattttag 180
acacaatctt gtataacaaa ttacagcaag atatgggtct aaaatggtta acctgngagg 240
cctgatcatg cttatgaata agcgcaataa tagcatggtt gagctgcttt agaatttttc 300
tagttgtata gaattcatta accgctgcaa atatatcatc accaatgata tt 352

<210> 15774
<211> 391
<212> DNA
<213> Glycine max

<400> 15774

tcaggttgct cattgattcc aattgctgca aatttgacag agatctgtat ggtgatttgc 60
agaagaacat agaccacaga ctcttgcaat aggtgtagat ttatgattca tggcaagctg 120
agttactagg ttgaccaagg catcaagttt tccttcaagc tttttatatt cagtagatga 180
agatgaattc gtggccacct catggactcc tctaagaaca ataacatcat ttcttgact 240
aaattgttgg gagttggaag ccatcttctc aatcaaattc ctagcttcag caaggggtcat 300
atcaccaaga gtcaccacac tggtagcatc aatcactc ctctctatgt tactaagtgc 360
ctcatagaaa tattgaagaa ggagttgctc a 391

<210> 15775
 <211> 143
 <212> DNA
 <213> Glycine max

<400> 15775

tttctcctta cgcctctgtg cggatatttca caccgcatat ggtgcactct cagtacaatc 60
 tgctctgatg ccgcatagtt aagccagccc cgacacccgc caacacccgc tgacgcgaac 120
 cccttgcggt cggctatata tct 143

<210> 15776
 <211> 480
 <212> DNA
 <213> Glycine max

<400> 15776

ccccacacac tattagaact ttttaattgca tctgcaaadc aattcaaaaag cgctactgaa 60
 cttaaactgg ccatgagcct tgaccaccta ggccaatttt actccggccc cgggttctct 120
 ttagacacct gcagcttgca tctctggaaa caatgtaccc tggggctgag gataacatct 180
 tctttttgag atccatctaa atgcttgcaa gactcagtga attactatct tccagtagcc 240
 gcaatggaag acaacattcc ggtatcaaac tctgtgtcac ttgcagaaac tgtgcccac 300
 atggcccggg aagaacatga tgaatctcta gcatgcactt aacatgtatc tttagggtaa 360
 gctccccgaa taccacctgc attcccttgg ttaatttgaa acgtcccttg ctttattgct 420
 gggaaatttt actgaaagaa aaatcaagtt ttaggaatac ttgctttaaa tatttttggt 480

<210> 15777
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 15777

tcctgtaagc ttcacagtca agcagtcaag cttttttata aattctcatt taataaatgt 60
 ttatcgaata aggcaagttt ggataaactt ctcaacaatt acttatagga gaagaaaata 120
 aaatgaattg aacttcactt ctttcataag ttaaaatcaa cttgtgcact tgcacttcta 180
 taaaagttct ctcatccgac ttctccaaaa agctgagatg cattatgttt attattttct 240

6625-30449

tctcttacat gctacaaggg cttattaaga agtttatcta aactgaccca aaggatttaa 300
ttaagttatt tccttctcga ccttcttctt gcggtgctag aatttcaatt ctggaagctc 360
tgtttgattt gaaatagcat aaggatg 387

<210> 15778
<211> 368
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15778

agcttcatga tgaatcaaga ttgattcaaa gagtttcgat gataacaaag atgatgacaa 60
aaagctcaaa agtcaagaac acttcatgtt aacaaagatg atgacttcaa gaatcaaaga 120
atgaattcaa gattgaatca aaaacacttc aaggatcaaa aggaaatttg atttcaagaa 180
tcaagaatca agtttcaaga ttcaagttcc aagaatcaag atcaagattc aagactcaag 240
attcaagaat caagagaaga ttcaatcaag ataagtatta aaaagttttt tcaaaatctg 300
tgtagcacat taatttttct canaaacctt ttaccaaaga gtnntactc tctggtaatc 360
gattacca 368

<210> 15779
<211> 406
<212> DNA
<213> Glycine max

<400> 15779

tgtaagagat accaaacata attggaatgt gctacctcat tgccattctt tagttcacct 60
taaaaaaata ttagatagtg cataatgaca tttgttaaat aacaagtcaa atgtacacca 120
atgcaacttg aaaaaattta aataataatt atacacaaaa aagcattgtc taggtacgta 180
ccattccgaa gcattttttt tcttcaaate ttttaattgg attaatatat tttgcctttt 240
atgtattaat tgaagattag ctgagctgaa gactaaaate tatatattac gaaatagcaa 300
aacataaaag gtgaaaatat tgataattaa ttttgtcaac tatcatatat caatcatgca 360
tgctatgatc catggattca tcactaaacc agccttgtcc aagttg 406

<210> 15780
<211> 367

<212> DNA
 <213> Glycine max
 <400> 15780

agctttctcg ctcatgctgg gaacgcctct agttcaacac ccgtgcagcc taaagcaccc 60
 acccagaggg aagctcccca agttccaact ccaaacacga ctgcaccggc cggtaatcc 120
 aacacgacaa ggaacttccc tccgaggcca ttgccggaat tcaccccgct cccaatgacg 180
 tacgaagatc ttctaccatc cctcatcgcc aatcatttgg ccgtggtaac tcccgggaagg 240
 gtctctgaac cccctttccc gaagtggat gaccctaag caacttgcaa gtaccatggg 300
 ggtgtcccg ggcatccgt cgaaaaatgc ttggccctta aataaaagg ccaacattta 360
 atggatg 367

<210> 15781
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 15781
 agcttgcgag ttcaattacg agtgcctgta tattgatgcg cctgaatcgg acatacgagg 60
 gaaaagttat gaccatttga atttctcgag agcttctat gtttaatttg gagcgtctcg 120
 atatattata cgctgaatc gaacctcagc gttgaaagt atgaccattt gaatttcttt 180
 agagcatccg atgttcattt tcgagcgtct ctatatgtga tgaaccttaa tcggacctcc 240
 gtgtgaaaag ttatgaccat ttgaatttct agagagctta cgttgttcaa tttcgagcgt 300
 ctcgacatat tatgcgccg aatcggacat cctgggaaa cgctatgact atttgaattt 360
 ctcgagagct tccgttgtgc aatttcgagc gtttgaacat attgtgcgcc cgattcggac 420
 atccagggga a 431

<210> 15782
 <211> 362
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15782

agctttcaac aaatgtcttc acaaataatc atcacacagc agaaaactaa caaaactacc 60

catcatatct cccaaaaccc catacccacg aaaatcaaag gggaaagaag tccacccaaa 120
 cctgaaattt cgaagtccca ctgtagcca tgcacttcac gaccccgaaa atgccctcct 180
 ttcgcgattt ggggcaaaaa tgatggccaa aggttgaagc tttgcttga gcttcaatgg 240
 aaaatgaaga agaagaaaat ggcaacgtga gggagagaga gagctgtctg aaaagctntc 300
 tggctctaaa taaaagggtt atctcttttt ctaattatct atttaagcaa tgccacatgt 360
 ct 362

<210> 15783
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 15783

tccatcaaga aataggagaa aataatggca catcacacgc tgaatgaatt aattcaaaaa 60
 gaagaaacat atagtaagat taatgtactt gttgcgataa agacttgacc agatgtgtcg 120
 gccaaagcaag gaaggtctaa attgcctacc ccacttagga aacctcatga gtgggtacag 180
 gaactgaagc atctgcatct ataacctcct ccacacttac ctttacttgg ccaggcaaca 240
 aaggagtgtt atgaacaata gtggatccct cataaactct cccaggggca accaggcgagg 300
 caggatctac ttcgatgtac aagccgcacc tatctgagtc acctatctca ggatcgtttc 360
 ctgaggggatc aacacaactc ccctttgtgc ttactc 396

<210> 15784
 <211> 155
 <212> DNA
 <213> Glycine max

<400> 15784

tatcttgtgg agtatacata tttttcaaac atgggctatg ttggaatgtg accactttga 60
 gttccctgga agcgggacta tgctatctga gggcggaag cttatgttca tgctctaaaa 120
 caacttcttc cagtgccttt gtaatctggg gacgt 155

<210> 15785
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 15785

tcctagcttt gaacaatctt aattaatggt agtgacttta aatggacctt gcaagtttgc 60
 tgtcctatat tttttgattg acgaatgtag aaagtagaat gtaataatgc tgattccgtc 120
 ctcacgtacg ttttctctct tgcgtattga ctattgatga tatatatgac agaatgacac 180
 aaattaaaat ggcttcatgg aacgtacgat gccaaactaaa agttgtgaa tcagttcact 240
 atgcagaagg catatcttcc tcggccctcg gaacaaaagt attagactat taccatattt 300
 tatttttgca attcctttat gtgttatgta tttttcattg ctttaattaat ttatcgtcaa 360
 gtgtgtgtat atatagagtt ggcttgtgag gccatccaca 400

<210> 15786

<211> 366

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15786

agcttgttct ttttagtaatt ataattaata ctacctccat ccctaaatac aagactcttc 60
 tttgagattt gtttgaactg taagcttgca ttaattatct ttatactaaa atacctttaa 120
 ttactttaca ataactgcat tctcattctt ataaggattg gagaagacta acacacatta 180
 attaggcaga attgtatttg atacggtgat atgaaatata taagatgcaa tactggtaag 240
 atacatattt agaaatgtat aaaaattcat aaaatataat aaatagttag ttgcaattct 300
 aaaaatgcaa attcaaaaaca tactttctgag acanttctaa caagaaaaag tttatcataa 360
 attact 366

<210> 15787

<211> 402

<212> DNA

<213> Glycine max

<400> 15787

tcacgtcatc acctccgccg ttcggaaatg ggccttttac ctgttaggat acccatttgc 60
 aatcttcaca tatcacaaga gtataaggga cctcatgccg caagtgattc agactccaaa 120
 atagcaaaca tatttatcta agttgtttgg ctatgattat acgatcaaat acaagtctgg 180
 cacctctaac atcgttgccg acgctgtatc cagaattacg gccatagaat ccattcagtt 240

atttgcgtta tgcatgccac acttcatatt catggaccaa ctttgccaat cattctttac 300
 caatcctgat tatgtttaat tgcgacaaca aatccaacaa accccagaag cccatcatgg 360
 tttcacaatc catcaagaac tcatttttoga taagggcaaa gt 402

<210> 15788
 <211> 348
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 15788

atcttctcga gaaattcgaa tgggtataac ttttcacaca aatgtccgat tcggggacat 60
 aactcatcta gacgctcgaa attgaacaac gcaagctctc gagaaattcc aatggtcata 120
 acatttcgca caaatgtcca attctgggac ataatatatc aagacgctcg aaaatgtatt 180
 acggaagctc ttgggaaatt caaatggcca taatttttca catggatgtc cgatttggga 240
 aaataatata tcgagatgct cntaattgaa caacgaaagc tatcgagaaa tccgaatggt 300
 ccgaactttt cgcacgggatg tccgattcgg ggacataact catctaga 348

<210> 15789
 <211> 574
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 15789

ccgccaccac nactccnac tcttntcant actanattaa tgtccaggaa ctcgagttaa 60
 gcaatgtaca tctcancnca ncccaagnac gccagcaaaa ttgaaccctt tgattcgctg 120
 agacaccatg ngacactgta gcatgctcga gctacacaga catagatacg agaacgtggc 180
 tcctcttcac ttgcatcatt catttagata cacacttgac caataatatt aggagaattg 240
 cataatagca caatggctag atagacacgt gcaaattggac gccacctgca actagccaca 300
 actgccataa tatttatata cattaaagct tccaatagggc acatgccatt gctaaccatt 360
 gggcccttac aacaacttga actagaccaa catatgccgc cttatatgaa taaaccgaag 420
 aatatctgat ggtgaacact ctatactatg attggcccat tatttacaca tactaggcgc 480
 tcttatagtt agacaatgtg gtgccatata atatctatat catgcgtgcc atgatccatg 540

gacaaccctg taattctctc ctggacactt gggc

574

<210> 15790
<211> 312
<212> DNA
<213> Glycine max

<400> 15790

agctttgcta tgtataacaa tctcacctct atactgggag gaaccagtgg tctcttccct 60
ttcaactctc tagttaagaa gtccagtttc ttttcttcat cccattcact gtacgtgccc 120
atatccaaat accttgtaat tacatcaatg gtttcagcat gtctgcttga ttctgtcac 180
actgctagtt tcaggccaca actgattatc caaacaataa tgaacaaaaa actttgaaac 240
atacctgacg caagtcaagc ttcattaaca ccatgccaaa agtagcaact cttcgatcag 300
atcagctagt cg 312

<210> 15791
<211> 397
<212> DNA
<213> Glycine max

<400> 15791

cggacgaatc cgaacctaag ttgctgatgt gtatccacta aaaaccagac actatcctac 60
tttgtctttc cctttctctc tctctctctc tctctctctc tctaatacaa cgatcctagc 120
ctctcttact tctcgatctc tacccttcgt cgtctctatt tctactcgga acccttcttg 180
cccttgccct tcctcctctc acctccatga caacctcgat gacaagttgt tcgccttccc 240
ctctttcttt ctccctccaa atctaggact ccgacaatga cttcctcctc atcaagtcgg 300
accttcacc tcctctattg gctcaaccct gacactgtgc accactgtct cttcctccga 360
tggatgcctc tacatcgaca accaggtttg cgagggt 397

<210> 15792
<211> 296
<212> DNA
<213> Glycine max

<400> 15792

ttctttaaaa acaaatcctt tcttttactt atcattctcc tcatgttgaa tcaatctcat 60

caattccatc tcatgtacct gtaactgtcc aaacaaagta caaagagaca tgttagatag 120
aactcgtgat tcaattatgg ctgttaccct gggttgtgat ttcttgetta aacatctcac 180
aactttattg ataagatctt cattcggaaa tatttgctct aaagatgcat gatgattaat 240
tatgtgtgtg aacctttttt gcatgtactg gatgctattg tcataacatg cctttt 296

<210> 15793
<211> 380
<212> DNA
<213> Glycine max

<400> 15793

tctaaggagg tgagcttagt tattataggg gtgtgtgtag ctaagcttta gcttcttaag 60
gaagttttct caagaaagct tttcaaggaa gctacctagt ccataaatag aagcatgtgt 120
aacacttggt gtaactttga tgaatgaaag tcttatgaga cacacttcaa agttccactt 180
ctctccctct tttattcctt caatttcgtg ctccccctt ctctctttct tttctccat 240
taaagcatcc tttagtgaag gtgaagaagc aaaaggggaa gaatctagtg aagaaatcta 300
ccccaagaa gaaggacaac ctttaatggt taagggggag tgtaaggagg taagtgtctc 360
ctccaagaga ctagctaaga 380

<210> 15794
<211> 227
<212> DNA
<213> Glycine max

<400> 15794

acaacattca agcaaaacaa cattcaaaca gcacaagcta ttacagccaa gccaaacaag 60
gcaaaggcag aaaactctgc ccaaaacacc aaccaaatac cagcttttct cacttaaaga 120
ccccagtaac aatttcttcg atccaattcg ttaaccggtg gatcgacttc aaaattttac 180
tggaagtcta tagtacataa gcttacattg tgaaccgttg gatctac 227

<210> 15795
<211> 394
<212> DNA
<213> Glycine max

<400> 15795

ttctgcaaga catacaaaaa aatatgggat ctagctatga tagaagtctc tattgaggcc 60
attgtagccc ttaccagta ttacgatcaa ccgttaaggt gcttcaagtt tggggacttt 120
cagctagtag caaccgtgga agagtttgaa gagatcttgg gatgcccgct aggaggaaga 180
aagccatacc ttttttctag gttctatccc tcttggcgag aatagccaag gtagtcaaaa 240
tctcggcaca agaattggac cgagtaaagc aaaatagaaa tggggtggtc agaataccga 300
ggaagcactt ggaggagaaa gcgaaggctt tagcggatca aggtaaatgg gctttgttca 360
ttgacatctt ggagctattg gtatttcaag ttgt 394

<210> 15796
<211> 416
<212> DNA
<213> Glycine max

<400> 15796
agtcgaccc gcagggcatg gcatgctgtt atctcactca ttacgtcaca gtctgaggac 60
ctgggcggta tacaatagtc ataaccagat actctgtagc gagcgtagcg ttttactctt 120
actattcgtc gaacaattat gcagcgcctc ggtagcatcc cagtgttaca gcctgatggc 180
acacagaatg agtggcgtgt aaacaccatg agatcagcac tgagcgacag acgatgcaat 240
cgactaccgc acaatcaatg tattgctaatt ctgtttcgcc tgcacatgc ctacgcagaa 300
actctatgtg accgcccccg cgaagaaacc cgcacatgaa attcctaatt aatgtgctg 360
agtgaatgat tcggataact attcgcgcac ttatgttcag aatagttcag aatatt 416

<210> 15797
<211> 392
<212> DNA
<213> Glycine max

<400> 15797
ggatgcctcc tggcgctcga acaagggtgc ctgtttgctg atataaaata taacctatag 60
cgatccattg cataaggcac tcatggaaag tattgaacgt ggtgactgcg ttgatggtgt 120
ccctctacca tttgaagctg ttgaagtcga tcatcgtgaa cctggaacta atgggaccca 180
taacgctcat cagcatcata cctcatgtga tgtgctcgca ctagactacg atgtggcgac 240
ctttgacagt attgaatgaa tatcagtga acagtatgct agacaatgct acgcgcgtaa 300

tcggttcaca ttgttttgat gcataatgtc aaaatcctac gctactactg tactaaccga 360
gcttacgaat aacaatcatt ttaaagaact aa 392

<210> 15798
<211> 324
<212> DNA
<213> Glycine max

<400> 15798

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tttgcacatc ctactacgac gactgagaaa actggggcaa ataaagaggg tgaggatgat 120
ggagaaaccc atgctgtgac tgccattcct gtactgtcaa attttccacc aaccaacaa 180
tatctttact cagccaataa caaacacact ccttaccac caccagtta tccacaaatg 240
ccatccctaa atctaccaca aagtctgtct accgcacttt caatgacgaa caccaccttt 300
accacaaacc aaaaacacca ccca 324

<210> 15799
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15799

ntctagcttt tcattggtgt attatgatct ccttttgggtg ctctaaatta tgggagtatg 60
ctcaaatata tagggcaatt ttggtttggt ttcttgcttg attaggttga attaagggtg 120
tgtatgggat ggccctaggc ctataatgca tttttgaaca atgggacatg ccacattgtc 180
cccgttctct tgctattgac gcctaaacgc gcgcccacca agtggttcggt gaaatgcctc 240
aatggcatta gcgcgtgact tttgtaagga aacaacccat ggggcatttt ggtttgtaca 300
cattttcttt ttttgaata tgtattcatt cctgaaaaag gctagagtaa tngccccgca 360
tatatcctag gcctaggaac taaaatttta t 391

<210> 15800
<211> 154
<212> DNA
<213> Glycine max

<400> 15800

atctttatgg tgaatcaaac gtgattcaaa cgagtgttga tgataaacat gatgatgacc 60
atagcgatga caaaatgctc aaagatcaat caactaacag ctattgtgaa tcaagaacaa 120
ttcaggagtt caagattaga atcaagaaga attc 154

<210> 15801

<211> 384

<212> DNA

<213> Glycine max

<400> 15801

tgttggtctt ctcataaaga tctacccctt ggttgtaatt ctaggccggt taacttctct 60
gctccttggt gaattgggtc ttcgatgat tctccaact taagccttgt atgaaattcc 120
tcccttggtt gaatcccgac ggctcctctt ggttgatcc ttcgatccg aggcgattct 180
gagctcccat gtagtttact tccctggaag aatcttcttg tgctatgcat tgccttggtc 240
cgtgtgctcc tccacagatg tggcatcccc ctatttgcat ggctgaagaa taagagggac 300
ttaccgctta tagttgttgt agaagcttac tgagtgtctc cgttatggac tctatctgtc 360
gtgctaataag cttgctttgg gccca 384

<210> 15802

<211> 361

<212> DNA

<213> Glycine max

<400> 15802

agcttgtgga tgctgatata ataatttctt ctgacctaat attacataga aggaaaaaaaa 60
tagagatgga tattcaatat atagatagaa gaaaagaaaa cacaatcatt ttctactttc 120
tagtttttct accaagctag taaaatggaa ttgtttcaat ccacatcttt catagaaaca 180
aactaaattt gtcactcagt caatagtaaa gaggatacaa agtataattt aattgatgac 240
attgtcatac tgtagtcct tcaaatgtat tattattggt gatcacgcaa acttggtcat 300
caagtgggtc cccaacacct cgactatcat catggagaat acgccttgag tagtaaacat 360
t 361

<210> 15803

<211> 406
 <212> DNA
 <213> Glycine max

<400> 15803

ttgtgggtgt aaccggcacc ccatagaact ggcagtgacc cgtgatcaag gccagaaatc 60
 ccagtgtctt attggacttc tccgggtcca ctagatatct gggagggtgcg atccttgcaa 120
 attggtaaat ggcatacaag attagctggg ccacattaat actaaattga gtcaagatgg 180
 cataaaccag ctggaacttt gggaagatca aaattatgat cactggggag aatgttgctg 240
 agcagcagtg tcatccagct ggctgttcgc aaccgacaag tgtaccggat cgcacaagta 300
 gtataaaatg gtaagaaccg agtatcaaac tctcggggaa cttgtgttat ctggcaagct 360
 atttcgataa ataggcgtct agtatgaaaa tatgattgtg gttatg 406

<210> 15804
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 15804

agctttgcac tgtcatggat cttctcatgg caatatcggt acagcaagac tgaaaagaca 60
 aaccaatatt catcactaca aagacacgca tttgtaaaat ggtggacaca atttgactca 120
 tccaaagcgg atccagaaca agtgaaactc tggttccaat cccatccaga attcctcaaa 180
 gcagctaatt cagaaacttc tgtgtttttg aaccaaaaagt ctcattctggc agcattttta 240
 gcaggatcga aatcaaagga ggtcttagct aaaaatctaa aggaagttct gcaaatgtta 300
 cagcaggaag aagaaggttc atcctcaaag aaggaagaaa caagttctgc tgaagaagaa 360

<210> 15805
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 15805

tgtaatactc tatggaagtg aagactaaca gtttcaccag agtgtttaaa gaaaatggac 60
 atcatatggt ttatgacatt atccctacta tgtaaagaaa ctttgctact tgttcttaat 120
 tgttgctcgt cgtgtatgtc gaactccact tcaatctctt aatatgggtc atagatttga 180

gaattgttga ggacccatat gaattacatc acaacatcga tcattgtcgc aaatgtattt 240
cattatttca tctctaactc tctccccgtg ttctcttatt ctagaaggta tttgtgttct 300
tctttgattg tttttcaatg cacaaattaa ccatatcatg aacattactt gcatgatcac 360
catttgaact agaaaaaata tttgaattta atatcttcac t 401

<210> 15806
<211> 364
<212> DNA
<213> Glycine max

<400> 15806

agcttcggaa gaaagtgatg aggtacaagc cctaaaggca gagcttgaaa gagcctgggt 60
agtcgaagag aagttcaagt ccatagccat caaagtctga aaagagtatg atgaactaag 120
ggatgtcaat atggccactg atgaagcctt ggaatgagaa accaagaagg cccgaaagga 180
agaacatgac caaagcaaag ttttgagggg ctttataggg cagcaatagt gagctcaagc 240
tccgaagagg tgaaaggaat catcacgggt caaaggcatg atcttgaagg acgagctaaa 300
ggcttgcctt atgtcgaaaa gaaaattgtc ccaacagtta agcgagactg aaaggaatat 360
gtgg 364

<210> 15807
<211> 389
<212> DNA
<213> Glycine max

<400> 15807

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agttgctgca catgatgtcc aacgttatat caaggaatga gatcgggctg cacaatgctc 120
aacgctagat gaactgtcac atgaagtatt gaagctgcac gatccacgat gtctaataca 180
atgtcctgac atgtgccccg ataatactgg acttgctgct caatgcaaga tataagtcaa 240
gtgctgaact gaagttgcat gatccacgac gtctgatata atgtcctgac atactgcccc 300
aaaatactgg agtcgctgtt caatgcatga ttacagtoga gtgcaaaatt gatgctgcat 360
gatccacgat gtcagacacc atgtcctga 389

<210> 15808

<211> 359
 <212> DNA
 <213> Glycine max

<400> 15808

agcttctttc atgaatattt tgaatattac cacatgcata cgagaatagc agttagacaa 60
 tattacatta ttccttggtg tgaatatgtt tgacccaaat ggttgatgat acaatgctac 120
 atggctatgt gtgtatgtgt attccattaa cgactgatgt tttgctatat ctaaagtcaa 180
 gcgctgatat tgtgatatta atgttaatga tgtgtggacg gttacactta gaacaatggt 240
 atgtgatcaa tcccagatag gaagagtgtg aatgtgagga ttattatatc aagaaatgtg 300
 agttaacaag atgaagtatt gacaagggta gtaaaatgag aacaagatcc ttagataat 359

<210> 15809
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 15809

ttatgggggg aactgaagt cagttgggaa gcacatccct cattgaatac agcaggtggt 60
 atcttatgca ttagagtga gaaatctttt gtgctagaga ggaaggatcat tgggaatgga 120
 ttataactgc tgataggaat gtggcttcaa gaggccgtgc gagttcacat tgtcaacatt 180
 tactcgccct gcgatattca gaataaaaga ttgttggtgg atagttttta gcagctgaaa 240
 agccccacat ctgggggtct ttggtgcata gtaggtgatt tcaatagcat taggcagcca 300
 acagagagaa tgggtgatg ccacagagct gtggaagacg gtacctctag ggagttcaat 360
 gattggattg cggagttgga ggtagaggaa gcaccatg 398

<210> 15810
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 15810

agcttggatg aactcttaac ttatcggect acttttatgc aaccattttc agaatagctt 60
 gcatgttttt gaaaatctta ccacaactat gtcctccag aaagatttta atttgaaatc 120
 ttttttgtaa ctttggttca agcacaataa ctaactctcc taagggtggt catagcgctt 180

attatatttta atatattatc ataatgtaaa atctattgac taaacttata taattattat 240
gctatattat ttttcattaa aatttggtta acatattttt gttgaaaatt attaattttt 300
tacttttatt tggaattatt aaaaaaata atataatcaa ctttttttgt aacataatag 360
taaa 364

<210> 15811
<211> 394
<212> DNA
<213> Glycine max

<400> 15811

tagcaaatta gaatatttat acctttctgg aaacttccta gtgggccagt tgccatcatc 60
attgtttggg ctaactaagc ttagtgattt agattgttcc gacaataaat tagttggccc 120
aatgccagac aaaattagtg gactttaatt tctaatttaa tttatctgga tttgtctggt 180
aactcctgc acgaaacaat ccccatatat ctggatttgt ctgggaactc cctgcacgaa 240
acaattcccc aatggtgctt ttctttgtca tcgttggtac gcttatctct ttacggaaat 300
cagettacag gaccaattgg tgaattctct tcttttctct tgtattattg tgatctctct 360
tataacaagc tacaaggtaa tatcccaact caat 394

<210> 15812
<211> 314
<212> DNA
<213> Glycine max

<400> 15812

atctttctgc ctgcttgtag ctgcaatttg atttagatga atatccagac aatgatgcat 60
ctatataggg cacatgtcaa tatccattac ctgcacataa ttccgctcac atatgttggt 120
aataatgaaca ggaatcgatg catctgttcc tattccattc ttctccatca gggatatcag 180
ctcactttca gtaaggaaat ctggaggact ggtgctcccc tgcagaattt gtggtgtag 240
ctatgtgtaa tacacacaga actccaatgg gaaatgaatt tcaaccttat ttcttctccc 300
cagaaatggg tata 314

<210> 15813
<211> 397
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15813

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atgtataacg tcacgggggtt gaatgaataa actgaattaa tattataaaa ttggtttttg 120
tactttttatt gtctacataa aattacaaca ccaaattttt agaggatgcg atgtaaagaa 180
gttttttgaat tttgatggac gatgtaaaga agtttgtttt attaagttgt tgaaactcaa 240
atgtttgcat tgtaaaaatt gtcaaaactc attgttatta aacttttact taaattactt 300
ggtaaacgaa aatgtataaa tgggttaattg tttccttaat aacgaaattc tatttgtaa 360
atttaatagt atattttattg aaggaaattg tattact 397

<210> 15814

<211> 255

<212> DNA

<213> Glycine max

<400> 15814

tatcttatat atgaaatatt gctcatgtgt taataggggt atgtgtatta atattcaact 60
atcttctagt aaataaataa cgatcatatt tgggtgtggc cttcctaact aatatttgta 120
tcattttgat attgcaaatt ttctgtattt gatcaggaaa gagattcgtg tatgcatata 180
ttaagtgaag gtacgatatc taagacaaaa ttggcaagaa atcaactaat tagtgcattg 240
ctttatttgg cgact 255

<210> 15815

<211> 375

<212> DNA

<213> Glycine max

<400> 15815

tatcttatta tctgagattg gatattatgt ataagtataa attatattct aattattaaa 60
gtcatatatg tattagctaa ttgaagatga ccttgagagg ctgaaactgt gcagagacta 120
gttcagcatc taccactta attcccaact tcggaggagt tgaaaatggg gaagttgaaa 180
ttgctcgag agtggaggga ctatttcgct caagcatggt tctgctacat tttctttttc 240
atgcttataa attataatca tataccttct ttttatttaa gaatgattgt ggggggtgtg 300

atgtattgta tatacgataa cacgcgttca agtctctaag gaatatgaga aacatttagc 360
cgaatattta atatg 375

<210> 15816
<211> 347
<212> DNA
<213> Glycine max

<400> 15816

agcttctata gaaggttcgt tectaatttc tctacaattg catcacctct caatgagcta 60
gtgaagaaga atgtggcatt tacctagggt gaaaaacaag agcaagcctt tgctttgcta 120
aaaaagaagg ctctctaagg cacctgttct agctcttctt aacttttcta aaacttttga 180
gctagaatgt gatgcctctg gagtgggagt tggagctgtt ttgttacaag gtgggcaccc 240
tattgcttat tttagtgaag aacttcatgg tgccaccctt aactacccta cctatgataa 300
agagctttat gccttaataa gagcactccg aacttgggaa cattacc 347

<210> 15817
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15817

tgtagaatgg ctagacatga tacatgtcag ggtttggttt gtttcaagga taaaagggat 60
gccccatatt atttccatga cacaatgca aaaatgatga tttggaaact ttatgcaaaa 120
ctgggtcatgc atgcattctat gcggacactc aaatgtcaaa tttttatggg catgtgatgc 180
tagggctcan gattcatttc ctctatttta atcaaccaa tgtttccaaa atatgttctt 240
ttatcaattt gtgcattcat ccgagtcctt ttcgggcgtc cggggaaatt tcacagcatt 300
cacccttcag gtgtagacac attttccaaa aattgattat gatcaatgaa ttttttcaaa 360
gaaagggttg aaatcgtctc ttttcaaaaag catg 394

<210> 15818
<211> 346
<212> DNA
<213> Glycine max

<400> 15818

agcttgtaga atggctagac atgatacatg tcagggtttg gtttggttca aggataaaag 60
ggatgccccca cattatttcc atgacacaaa tgcaaagatg atgatttgga aattttatgc 120
aaaactgggtc atgcatgcac ctatgtggac gctcaagtgt caaattttta tggatcatgtg 180
atgctaaggc tcaagattca tttcctctat tttaaatcaa cccaatgttt ccaaaatatg 240
ctctttttatc aatttatgca tttatcctag ttcatttcgt gcgttcgggg aaactttcac 300
agcattcacc cttcaggtgt agacacgttt tttcttcaaa aatcgg 346

<210> 15819

<211> 390

<212> DNA

<213> Glycine max

<400> 15819

tggattgatt cagtctaact agggatcgag gtttagtaat ttaggctaca acatagaaca 60
caaaagcatg attgattaga gaaacatctt tatatacatc agctgggttg ttagaaaaac 120
tcaatacctt tacctattgc tatcaatctt acttgcatth ttactgtttt tagcctatac 180
ttagtttaat tatgttctaa ataatacaatt atcaatgttt ctttcaacaa tgctttatth 240
atgaatttaa cctgttctaa tactagttcc ctgagtttga tactcagatt caatcgthtt 300
aattttaaat acttgacgat ccggtgcgct ttccggcaaa tcggatttcc cttgaacata 360
tttgtataaa gaaaaagtgg accaaaaagt 390

<210> 15820

<211> 355

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15820

agcttaatat aaaatatatg tttttttctt atgagaaact tattaatatcc atattggcgg 60
atctatttcc tcttttggag actgaaaatt cttataaata ttaccgttta ctataatgac 120
ataataagaa aaaacgtctc acaatgttat aaaacacaaa agataaaaaa agacaaccct 180
ttgaaaaaga agagaacaaa ttaaaaaaaa aaaaaagaga gagctacatt acaataataa 240
cacacttaca ataatgctt ataacactnt gtataatttg tttttcttta tcacataact 300

tgtcttattt aatactctgg ttacagagaa acatccttgg cagagacaga aagga 355

<210> 15821
<211> 391
<212> DNA
<213> Glycine max

<400> 15821

tggaggacag ctttgtttga agcaagtaac ttccttggcc accatattac cactcgctcc 60
gggtatgtac caacaattcc tttcatattt ttacttgtt ttttttttct tgttgagttt 120
ctaaaacgtt tcgatccatt gctatagaat gatttcttat ttttatttaa aattgactta 180
aatatgtttt tgagatttat tattcttaat ctgatctcca agataaaatt tatatgtttt 240
tagtccttca aattttaaac atgttatttc tagtggttca ataataaaaa aatataaaaa 300
aaagtcaagt ttaaaccata aaaaaaagtc aaaaagaaac ttaaaaagta ttttaciaat 360
ttaagacctc aaacttgaga aattaaaaat a 391

<210> 15822
<211> 259
<212> DNA
<213> Glycine max

<400> 15822

atcttgtcca gacactacat tgattgaaca gtataatata attcgaagaa gaaaatatga 60
aaaagcttag atacagctcc ttggtttttg atgttggttt ccaatcagaa ttggagtttc 120
actctagaag tccacataat atagatgtgc attaaaggat tctgtagatt attgaaatga 180
aactccaatt ctaactgata acagcaccaa ttgcacctaa agaactgtat gcaatgtttg 240
tccaaaaaat ataccttga 259

<210> 15823
<211> 389
<212> DNA
<213> Glycine max

<400> 15823

ttcatgactt gcaatctttc tatagaatgg tgacttatac gaaaatgcca caaatctata 60
gggatgacat tacatttttg atgggtaatg gcggagcata tggatcttga atgtgatggt 120

ttcaaggtaa gctgataaag cccatgactc acttcaactg taccaatctt cgctttggtg 180
 ttgatatcct gcaaaacaca agtattagag gagaagatta actcgtagct gtttgtggaa 240
 atgagtttgg atatggatat gagattaaag ctaaaagaag gtatgtatag aacatctttc 300
 aatgtaattg aagaggtgag atggacgggt cccgagtggg tggcatgaac ttcgtgtcca 360
 tttgtaact taactagaat gggtttaat 389

<210> 15824
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 15824

tgtttctttc atgaatattt tgaatattac cacatgcata cgagaatagc agttagacaa 60
 tattacatta ttccttgttg tgaatatgtt tgacccaa at ggttgtgatg acaatgctac 120
 atggctatgt gtgtatgtgt attccattaa cgactgatgt tttgctatat ctaaatgcaa 180
 gcgctgatat tgtgaaatta atgttaatga tgtgtggacg ggtacactta gaacaatgtt 240
 atgtgatcaa ttccagatag gaagagtgtg aatgtgagga ttattatatt aagaaatgtg 300
 agttaacaag atgaagtttt gac 323

<210> 15825
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15825

ntatgggggg aactgaagt cagttgggaa gcacaacct cattgaatac agcaggtggt 60
 atcttatgca tttagagtga gaaatctttt gtgctagaga ggaaggtcat tgggaatgga 120
 tttatactgc tgataggaat gtggcttcaa gaggccgtgc gagttcacat tgtcaacatt 180
 tactgcacct gcgatattca gaataaaaga ttgttgtggg atagttttaa gcagctgaaa 240
 agccccacat ctgggggtct ttggtgcata gtaggatgatt tcaatagcat taggcagcca 300
 acagagagaa tgggtgtatg ccacagagct gtggaagacg gtacctctag ggagttcaat 360
 gattggattg cggagttgga ggta 384

<210> 15826
 <211> 215
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15826

agcttcaagg tcaatggaca ccagctgaaa ccattcccca caaatccctc cttagtggat 60
 gtagtggtgg aggagacctc ctttaattcac cctacgtctc ttccgccatg acttanggag 120
 ttttctttct tctctctcct tctttacttt tattgatctt atgattgtgc tacattgagg 180
 acaatgtggt gtttaagtgt gagggggggg gggggg 215

<210> 15827
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 15827

tctgtaatcg attaccagaa gcaaaaatga ctttgaaaag ctttcaaaaa gtttgaattt 60
 taatttttaa agatgtaatc gattaccact attgtgtaat cgattaccag tgacagaagg 120
 ttttgaaatt caaactgaaa agacatgact cctcaaaaat taattgtgta atagattacc 180
 acagatctgt aatcgattag cagtgagaaa atttcaaaaa taactctgaa aagtcacatc 240
 tcttcataag tttttgaaaa gccaccaaag gcctataaat atgtgacttg tgttcgaaat 300
 tctggagagt tttttagaac ctcatgtctt tattctctca taagaaaacc ttgggccaca 360
 cactttcaaa acaattaagg attcatataa gttctttcaag 400

<210> 15828
 <211> 317
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15828

tgtcttggtt cgaggctactt acccggtgaa gatcgaagaa cgatgaagaa cgaatgaaga 60
 acgtcgaaga acggttgaaa tctttgcgaa attcctcacg gaaaacgtta cggaacggtt 120
 tcggaagcgc ctcggcttan attttcttca cggaacaat tttccaagc atattcgaaa 180

gagagagaag tgcctaaggg gctgaacccc ttccttcttg ccttcctccc ctatttatag 240
cataataggg gaggtgggtg ccgcccagct cgcccaggcg agctcagctc gcccaggcga 300
gcagggttgc ttcctcc 317

<210> 15829
<211> 400
<212> DNA
<213> Glycine max

<400> 15829

tgtaatcgat tacacacata cagtaatcga ttacttttagc acattttcaa aaaatattct 60
caacagtcac atctttttat gtggttcttg aatggctatc aaaggcctat atatatatgt 120
gacttgagac acgaatttaa gaagagtttt tggagaacaa aaaggcttta tcctattaaa 180
aagcaaatcg tggtatcctc ttacaaattc cttggccaaa ttacttgga ttcaataagg 240
aattatttga gtgctcaa atgttcagtct atctctttca agagagattt cttcttttct 300
tcttcttcat tctgaaaagg gattaagaga ccgagggtct cctggttgga aagaattcta 360
aacacaaagg aagggttgtc cttgtgtgtt tagaacttgt 400

<210> 15830
<211> 351
<212> DNA
<213> Glycine max

<400> 15830

agcttatcac attagggata gtttaaagtt taaaccacca aaacatattg cattttataa 60
atattaaaac taactctcaa ctcatatttt agttgttaaa atagtcatat aacacattaa 120
tatttttact aaaaataaca tatctataaa ttaacgaacc tgtgaagctt ggtaagtttt 180
tctaaaaccg tacaaccaa gctactaaac ccgaaagaaa cattgcaaaa aaaataaata 240
aataaacctt gacattttac taaataaact aggacaggctc ataccttaac tagaataagt 300
cataaacatt taatgaacga tctaataact tatccctagc tttttttttt t 351

<210> 15831
<211> 401
<212> DNA
<213> Glycine max

<400> 15831

tttaaacttt gaggaatcat gaattcgaac agactctaaa tatttttcca gttttgcttt 60
ttcttgata ttttcctggc aatacagtac aacaaaacat aaagcaacaa gcaatttcca 120
tccttgtaga gacatgtctt tgttaagtgg tggaatcaat ttgacacaac aaaagcagaa 180
ctagacaagg ttaaaatcta gtttaaagct catccagagt tccttaaagc aactgatcta 240
aagacttcat tgtttcttaa tcagaaatcc aagctagcgg ctttcctaga aagatccaag 300
tcaaaggaac atttgacca gaacttaaaa gaagttcttc aactacttca actacacata 360
gaaaatacaa atacctgaac acatcctatg tgtaggtatt c 401

<210> 15832

<211> 363

<212> DNA

<213> Glycine max

<400> 15832

agcttgagag gggtatggac cgaacgatag aatgtcttat ccaaaataaa ctgtatgtag 60
atagctgaag tcttcttttt ggctcagaac gatcaattgc tgtgataagt cccttaactc 120
ctgcctgaca aagatcttga aacctccggc cacttgcaaa atcttgaaaa tatttgctaa 180
tcacgaacaa cacaagccgg agattgtgct gcaaccgaca tcacaatggt ttcttaatct 240
cagtataact aatactcatt ccaaagaata tcaacaaaca ctgcaacaat taaaccattc 300
atatccaaag agacaaagag agagaagaaa tatgaacgga gatgtcatat atcactgatc 360
ttc 363

<210> 15833

<211> 398

<212> DNA

<213> Glycine max

<400> 15833

tatcagaagg ggaatggtaa aataccacct caagctgata ttattaaggt ggcaaagtgt 60
ttcttttgca agaagaaggg acacatgaaa aagaattgcc ccgggttcca gaaatggctt 120
gagaagaaag gtaaatcaat ctcatagta tgttatgaat ctaatatggt tagtggttaat 180
attaacacct ggtggattga ttctggatct actattcata ttgcaaattc ttacagggt 240

atgcaaaacc taaggaaacc agtgggaagt gagcaaagca ttttatcagg caataagcta 300
 ggctcacatg tggaggccat tggaacttgc attttgactt taagtagtgg ctttatttca 360
 aaattagaaa ggacttttta tgtaccaagt ttttcccg 398

<210> 15834
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 15834

agctttgaga agtagtctat tgcttttctc tcatagccat tcatggcaag tgatattata 60
 atgaagttcc aacatgataa tctgtttgtt gtgggtgatg cccgaaacac ttgaataccc 120
 tttacgatag ctccacactt gcagtacatg tcaataatta ttgtgagaac aacgacattc 180
 aactcaaaat tccccttttt acataatcat gaaccactc cccatgttga agtgcaccta 240
 agtgagcata aacacttaac aaactcatca ctgtaaattc actaagctga acccttcgtc 300
 tctgcatctt gcggaaaagc tccaatgcct ccataagccg tttattcctt acatatccac 360
 taatcata 368

<210> 15835
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 15835

tatagaatat ataataaaag aacaatgaca attgtttagt ctattcatgt ttcctttgat 60
 gagtctaattg ccattcttcc aaggaaggat tttttagatg atatttcaga ttccttagaa 120
 gatacacata ttcattggaaa tgactctaaa gaaaaagatg aaggaagcaa tgaagattct 180
 caagataatg gagttagaac aaataatgaa cttccaagag aatggaaagc ctcaagagat 240
 catccccctcg acaacattat tgctgatata tcaaaagggg taacaactag acattctctt 300
 aaagatttat gcaataatat ggcttttgta tctatgattg aacctaaaaa tataaaagat 360
 gccataatag atgataactg gatcattgcc atgcaagaag aac 403

<210> 15836
 <211> 347
 <212> DNA

<213> Glycine max

<400> 15836

tattttctcc cctattttgc tataaatagg gggagaagtg ttgaagataa gggttcagcc 60
tcttaggcac ttctctctct ctcgaaattg cttaagaaaa ttgtttccgt gaagaaaatc 120
caagccgagg cgctttcgta acgtttccgt aacgtttccg tgagtaatta cgcaagatt 180
ctcgaccgtt cttcaagatt catcgttcgt tcttcgttct cttcagtctt caacgggtaa 240
gtacttcaca ccaagctttt caaatcattc tatgtatccg tgggggtcca cattttgttt 300
catgtatatc tattctcggt ttcatttact ttttatacct ccctttg 347

<210> 15837

<211> 246

<212> DNA

<213> Glycine max

<400> 15837

atctagcttt attgtacagt tttgatcatg acataagttt tgctttccat aagtcgccat 60
aacaatgact gatactagtt ctagattagt cgaacaaact atcacaaact tatgtcatga 120
tttatgattt tgttggcgat catgcacgtc tcgagttgac tactttgctc tttgtaatga 180
gaaatatttc gtataaccta tcaacctcat tttagtccag tcacactatt aaaccattgc 240
ttttgg 246

<210> 15838

<211> 390

<212> DNA

<213> Glycine max

<400> 15838

tcagatgagt ctattaatga atcccctatt cgattttatt tatagaaaaa tgaaatcggt 60
cataggcctt aaattaatag tttaagcttt gcgggagagt ttgacgttga aatgggtgtca 120
tagtctagtg ttaagttttg ttggactctc ttcttaggtg gagtaaagat tcaaatgaga 180
aggttcattt tgtctcactt atttaagtgg agagagggtca aattaagggtg agaaggactt 240
aattatttgt gagggaaaaa caatgggtcaa acattgtgag agaaaagata ggacaaatca 300
ttttgatttt tgcacacca ccggagaaca tttttcacat tataataaca aattcggttca 360

ccgttggatc agactgattt ttggacagta

390

<210> 15839
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15839

tggtataag ctttgagcct gatnactgag gcctggaaca ccaggctata tatctagcac 60
ccgggatcct cttagttggt tgtaagctgc tttcttccat aaagggtttc atatcctagt 120
acttagtaca tgtgtcctt gaaccttctt gtaattctat gcttttcaca gtatatacat 180
gtatatgtcc tagactctct tctcgccgtt ttatttgccg atgtctaggg aatacatgtg 240
gataacgtag agtctttgat agtattccgc gcgattcaac tcagcactac gatgccttca 300
tcagaattat ttatgagtta actgttattg tattactgtt catgcttgag tttgattagc 360
taaagggtccc gtagctttat cttatctttt acctagactt agattctcac tccacgaagt 420
cctgtcgtca gtctttctgc gaatacgcc 449

<210> 15840
<211> 373
<212> DNA
<213> Glycine max

<400> 15840

tcgagccaga aacctgtcac accatcttcc tcgttttggg tgagaacgtc aatccttacc 60
ctctgaagca atatacagag agacggaata tttcttatcc attgaccaca gagacgattt 120
gacatcctca atctcataga gggagatcgc atctcgaaat gatagaatat tccaatcac 180
tgagtgggac gcaagaataa ctacatatg agaatcgcat gaaataactc tcctgatcaa 240
cgatctaag aatacagaag aaatgtgcat aaaggtcttt tgaccatact atatttgaac 300
aatacataat ggtcatcaat tgaacaaaag aaagaaaacg aaaccatgac ctattgagga 360
cttatccctt tga 373

<210> 15841
<211> 491
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15841

ccctctcgcc tcnccacggg ctgggtatcn attatactcg cttattagac acacctcagg 60
tacaaagaac tgaggcaata caattgatgc attgaaacct tcgacgctta agcgtatata 120
acgcgatctc tggagcctct tgaaagcccg ttttctgcca actaacgcca ggaacgagta 180
aacctacaat tagagaacat catgccacta tatatggcat ataacaccga gacgatggct 240
gagggataac ggagagcgca ggaaacgaaa atgtaccgca atagccacca aaaaactcac 300
catccccctc acaaaaaaga agatgcccc gccccgagag ggccccttta ggtcgcatc 360
acgcctgaca gtagcctgca aaccaatata ccataaccat ccttaggaac gaccaattca 420
agcacgcgcc ttcacaaacg caagcaagac gtgcagtaag aaaaacaaat agctatctcg 480
tcccaacacc c 491

<210> 15842
<211> 544
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15842

ccgctgccac canctctggt catacttnga aaatgtaaga tgcacgtaga cggtagattg 60
tgactgcaca ctaancacac agacagcnac gcaccttgac cccttgatcc gtggnaacnt 120
cagagaccta tagacaactc aagcgtccca aggaaccaag ccaaacaaca ttaaaacatt 180
tgaggactgt cacagcgcaa acaaacacag agcaaaggca gaacacgtcg caaaaacacc 240
gaccaatatc acagctgttc tcacaaaaag accccacaga acaaatcgcg cgagacaaaa 300
catgaacacg acagatcgac tcgaaaatac ttctggaagt cgacactaca taagcctacg 360
atgtgaccgt tgggaacgac tatcaaacga ccagaactca ctatgagaaa caccaacgga 420
gacctaccgc acgcgagcat ttttggcgac aagcgagagc cctgccacgc accactcgac 480
agcaaaatac acgctgaatg caaataaatg acgtgacact tgccctcaac caaaaacgca 540
taaa 544

<210> 15843
<211> 291

<212> DNA
<213> Glycine max

<400> 15843

ttcttttatg ctcatacagt tgcattgttg gagtaggtct atgacatacc attttaatga 60
gacatctact atgaaggctc ctttaattga ttgcttactg ttctatatcc ctcacactct 120
tcgggtattat atgcactcat gattccaatc ccagacactt tctaaaccac aaccatttat 180
tctactcaac tgaccacaac accatattat aaatgtcgaa ttctaactaa aacatgccat 240
atattaatgt cctagatact cataagctac tatgaagaag ttcttgctat g 291

<210> 15844
<211> 376
<212> DNA
<213> Glycine max

<400> 15844

ttagtcttga tgttgttcat gttgctcccc ctatttttaa caatcttccc ctttttggct 60
ttgatgatgc caaactcgaa tataacattg aatgcattta gagggctctga gtcttgagat 120
tagagacttg cttttcttaa tcaatcttga aaattattaa cacttaagaa aggatcaatt 180
catatcatca tcatcatcat atatcttact atataatttt actgatgcta atgcaatata 240
atgtagtgca gtactagtgc atctcccaaa tgcttatata atacaatgca cgcaaatatt 300
caatacatat gcagcagttc atatatatct cctttttatg cacatatgca gttcatctcc 360
cctttttggc gttaac 376

<210> 15845
<211> 317
<212> DNA
<213> Glycine max

<400> 15845

agcttatgtc tgggtcaaata cagatttgag catacataat actcccaaca actgatgcat 60
acgaaattac ttccatttgt ttccgttcca gatcatttct aggacattga gcgagactaa 120
atttttctcc tttctgaatt ggaatgggaa atgatgagca cttttccatc ctatataact 180
ctagtacttt attgaaatat gcttcttgag acaagcctaa caatccttgt gatctatttt 240
ggaatattct atttgatca catagcttgc ctcacccatt tccttcattc aaagttacta 300

aaaagaacct tttagtc

317

<210> 15846
<211> 387
<212> DNA
<213> Glycine max

<400> 15846

tttagttctg cttacttatt ttttaattgg gtcatatggt tgtactgtgt gtttgtgtga 60
acatcaattg gttctgctta cttgttttag gtcttggtat caatttggtg tgtgataatg 120
gctaattcca ttttaaggagt tagagttatc cacctcgctg atgtttgatg gaacctgtca 180
acatgatgtg gcctgccctg actaactcgt atgtctgacg agccaacatc agcgtgggaa 240
gggttggtccc attagcctgc catacatata ttttttttaa agaaaatcta aataactaata 300
gggtgtctacg gtttgggttg tcaactttgga tcttcttata gtatagaaca acataggcat 360
ttgctattat ttttatatta ttttata 387

<210> 15847
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15847

agcttaacgc tcgggaggat tttgtctcac aaaactgata acgttaattg cattatatat 60
atatatatat ataggaatc tacattgtgg gtaatggggg ccattggaaa gtaaaattta 120
cttgaatata tcgaataaat attttttcc tctataaaaa aataaatctt gcccacaccg 180
gatagctttt tcataaggta aatataaata aatgtaaaag ataaaagaga atacattgat 240
attaatttat ccttttaaat tgtactatctt ttattatcaa ttttaataaa acttatataa 300
ttgtttgttt gagaaaatat tagactatgn tttacttaaa aa 342

<210> 15848
<211> 386
<212> DNA
<213> Glycine max

<400> 15848

tattaggcct tttcttatta tacctcttgt gaattcactt tctcaataca cttattttctc 60
tctccactta tccaccaaact cactgatcaa taactatttc atttttgaaa gattcaatta 120
tttattttaa tgtgtgaaat aattaatgtg gataacagta taattgacaa aaaataatta 180
atgtaacctt aaacttttaa aatgatagat aactaaaaaa tgattttttt ttcaaaaaac 240
ccgacaatta gaaaaaccaa gggagtataa ctgaaagaga tttttttttg ctaattgtga 300
gagtttttcc atgaaacaca cgtcaaaaaa aaatactgag aataagaaag aataagggtgt 360
gttttgtatc taacttaaaa ttata 386

<210> 15849
<211> 366
<212> DNA
<213> Glycine max

<400> 15849

agcttattgt ttatggattg ccaaattcca catcatttga cattattctt aaacaaacta 60
gtttattaga acaaaaaata aagaaaaaat gtatgggctg gttttatcta tttatagaag 120
attttgagtg aaattataag attttaaagt ttatgaaatc aatagtattc tggttgatgc 180
caatagaaac caggtaaaaa tcaaatcctt tttatctcaa caattataaa gtccttgctt 240
caaatgaagg aaagcattgc tctgcctatt gttaattttt gttttactgt attgtaatgt 300
ttttttctgc ttgcatgtga aatacattca agttttatgt ttttgggttc ttatttttac 360
attcaa 366

<210> 15850
<211> 403
<212> DNA
<213> Glycine max

<400> 15850

tccatagtcg atagttgggt gagtaagtta cttgaattta gattcactag ctggctgagt 60
aagttacttg gattcaatag agaatatgat agatttaaact aaggacataa agaactctta 120
tcgtttaacc gaaaaataag ataaaggaca tatttttctc agattatatt atatttgaag 180
ggaaattaag atcccaacat ctaatttcac ctctataaaa taggttaatc aagggttagg 240
tattttaatc tgattccaac ctacatatat ttgcttacct ctacattggt aacttgagcg 300

tcgaagtgcc attgtaggta cacctcacca ctgttcgtga aggagctcac cactaataaa 360
 aaatacactt tcaacatcgg ttatttacgg cattctacat cgg 403

<210> 15851
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 15851

agcttcatac aacttgttgt aattgattac aatgaggcta taatcgatta aaatagaaag 60
 tttttgcctt tgaagaaaat tctctaacta agaaactttt cttcacacaa accatgataa 120
 tgcattgatgt aatacaaaata tcaaattgtac taagattgtaa caaccaagat aacaaccaat 180
 acaaatgccca ctcaatggag ttgggggatgt aaaaaccaa acttcttcaa gcttttagccc 240
 ttaggttggtt cagaagctag ctagttagtt aagttgaaca tccttttagat tgctagctgg 300
 ttgaaatcaa gcttaacgag gtggatatag ataaataata ggaggaaaaa agttgtataa 360
 tat 363

<210> 15852
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 15852

tcatgatgaa tcaagattga ttcaaagaag ttttgtcgat aacttaggtg atgacaaaaa 60
 gcttcgtgat gatctcaaga atcaaagaat gagttcaaga tggttcaagat tgaatcaaga 120
 acatttcaag gttcaagagg aaaattgatt tcaagaatca agattcaagg ttcaagcttc 180
 caagaatcaa gatcaagatt caagactcaa gattcaagaa tcaagaaaag acttaatcaa 240
 gataaatatg aaaaagtttt ttcaaaaact gagtagcaca tggatttttc tcaaaacctg 300
 tttaccaaaag agtttttact ctctggtaat cgattaccag attattgtaa tcgattacca 360
 atagcaaaat ggatttgaaa aatttttcaa ctgaatttac aatgt 405

<210> 15853
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 15853

atcttcggtc tccacctagc attttcctca aaaattttct ctttttttta cctcctcctt 60
gaccattgta ggctcctcaa cccaagtctc ctccacaagc aagcccttta tcaagttgtt 120
ccttcctttt caattgatga tggaatgaaa aaatttagtg ttgcaatgac cctcctttag 180
ccatctatct cttgactttt ggcatataag agattcatta taattagcaa ctctccaaaa 240
atcttattgt aatttttagtc acttctttaa atcatcttca ctaagaccat ggctctcatc 300
aataatacct agctcattta gatctatctc aatatgcttc aacttggtat ttatcgaaca 360
aa 362

<210> 15854

<211> 397

<212> DNA

<213> Glycine max

<400> 15854

tcattcaaga cttttaccag caaagctcga tgatgctcag agtcatgag cagttccaaa 60
agagagactc tagctggggt tttgttgagt tactcaataa ctttgaactc actttgttga 120
ataatgcgga ggaactcgct ggctccttag agcgatacct ctttcttgtc acaaccctct 180
cttcctcag aaagaccttt catcggaaca tctcaccg aagtggggat cactttgaca 240
tttggtcctt ccgtcatcct tgcttcccc ttagcatttg agggctacgt cggtaggta 300
gggggtgcaa atacgcgacc actgtgggtt atgccgctca gccccgtgat attggttact 360
ttggccgaca tcgagctgat gtcggtagct ccttctt 397

<210> 15855

<211> 363

<212> DNA

<213> Glycine max

<400> 15855

agcttttgaa gagaaagatg aagaagacc aactgtaaca taacggctag tttgacctat 60
tgggtttata tattgaaaaa ggacaatgac aaaagatgag agagaaggta tgagacaacc 120
aacacaatgc aaaaacaaag ttcatacct ctccatcctc catgatcttc ctatgtgcaa 180
aaaaaaaaa acaaatcgtg taaattatag tcaaagctac aatgaagatc caatccatta 240

gtgtttctta gttgtaaaat cctctcaaac actttctcct tgtatgtaat ctgtatgtat 300
 gccaaattaa tcaagtgaat taagtttgaa tgtgaaagaa gtgatagaaa aacccatgaa 360
 atg 363

<210> 15856
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 15856

tcattggata atcttttgta gcatgccaat taggataagg gaattgttaa gggcatctaa 60
 catttttggt gaggcaccta ataatttttg gaaatgtcga aaataccctt atggatattt 120
 ctgttataaa tagtaggagg agtttttcat ttccgcaaaa tcttcatcac ttagtgtaag 180
 ttgcttctga taagatcggg ttccgaagcgt atttggtctt cgactgtgta cgtgcgttgc 240
 tgaagagtat acggtaaatt ttggttgggt ttcggttgctg gagaagaaga ggtacacgaa 300
 atacatatag attgtcaatc catatggggt atacgaatca gcaatccata tgactcataa 360
 ggatcagcaa tccatatgac tcatacggat tgtcaatctg 400

<210> 15857
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 15857

agcttatgct gcaaacattt ataatagacc tcctcagcag caaaaccaac aatagcagaa 60
 gaattatgac ctttcaagca atagatacaa tccagggttg aggaatcatc caaatctaag 120
 atggacaagt cctccacaac aacaacagcc tgtccctcct tttcagaatg ctactggtcc 180
 aagcaagcca tatgttcttc ctccaataca gcaacattca caacaaaaat aaataacccc 240
 ccctaattcg ttactatttt attactatct gttatgaacg tttgggttgac cattgctcgt 300
 taggagatga cctatgatca cttcctagat actgcatttt taatgtttat ttgatttggg 360
 tgc 363

<210> 15858
 <211> 402
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15858

tgttaggaata tggggtaccc atcatatgtg gtactagggtg gcgttcggggc gatggtgcaa 60
atcaactctc ccacatccac aaatcaaaca tgaaccaccc atccccagtt gccacacttc 120
aactgagctc acgtatcccc atgtagcctt tctctcgtt cctctcagca tcgggtcccc 180
atcaaccctt ccaagcttcc acaatatcca agcaattcaa tatccaaaca tcatgaacta 240
tcctaaacta agaaaacagg gcagaggcaa aaaactctgc ccaaaacaca ttccaatacc 300
acaactttcc ctactcaa atccccagtaa cattctcttc gttccgattc gttaaccggt 360
ggatcgactc gaaagtnta ctggagggtcc ctagtaaata ag 402

<210> 15859

<211> 350

<212> DNA

<213> Glycine max

<400> 15859

atcttctttt ggaccttgaa caggcaacta actcctcttt caaaaccatg ctatgtgctc 60
gcgaatggtc cctctcttcc ctctgcagct tgagttcatt gttgctaccc cacagagctc 120
cacgaaattt attccggcca tactcttctt tgcgagccct cttggtctct tgttcaaggg 180
ctcttgagct agttgcattc tcttcccgta acccggcaca ctcttccga atgtgtgtag 240
cgtccaactt gaacttctcc ttggcaagtt tcgcctttcc taactcgctt ttgagagctt 300
ggacttcttc gtctcttcc ggtgcttcaa aactatcttc gctgacgact 350

<210> 15860

<211> 395

<212> DNA

<213> Glycine max

<400> 15860

ttcctacaag tctaattgg cattttatac tatgatcaac tcaactttaga ctccaattta 60
cactaaccct aaatttagct tctctaacc tcaaaatctc acacttttct acctacaaca 120
ttgtcattct cacatttaac cctaagttaa ctttcccat catctctacc agctttctat 180
caacaatttc agcacacaaa catcacaag catcatcata aaaccctaaa acagaatggg 240

taaatttggc tcacatcaaa catgtcaagt ttagcatgct ttcaacaaat tccttcacaa 300
 ataactacca taaggcatta acctagcaga actacccatc atatcccccc aaaaccaat 360
 acccacgaaa ttcatgtgag aagaagtcca cccaa 395

<210> 15861
 <211> 283
 <212> DNA
 <213> Glycine max

<400> 15861

agcttgcgat catgggatac cctccatata cagatgggta acctgatcgc cttacaaca 60
 caacggcctg tactagagat gtaacgaggg aactgaaaca atacacacta cgtgtggggc 120
 cacatgtgtg aaacttatcc cgatcgtgta ctctccatga gacttttctg tacctttcat 180
 aaattaccct gtcatgcgtt cgttaatcat caccagtaca ctatccctgt tataactgtg 240
 tccagcttgg aagccatctt tacctacctt aaacctgacg tcg 283

<210> 15862
 <211> 196
 <212> DNA
 <213> Glycine max

<400> 15862

tcgcggtgca gcggccaaag gctatgtttg tagcttttga ctaatgtcta ccgggtaact 60
 tgattttttc tataatccga tgctgtcgtg taaaaactcg agagaagatt gagccaatgg 120
 ctgatcaaga ggaaattatc ctttaacacc tcaaggcaca tgctcgacac tgacctttgc 180
 atatatccac atgctg 196

<210> 15863
 <211> 344
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15863

ttcttatata gaccatcacc aacattntaa catttggctc tagaatatat atgatttctt 60
 ggcttggaga tgaacaggaa agttagaata tataatataa ctcagaagta attaccttac 120

tttgcctggag gtcattgggtt caaatccaaa aacagcctct ttgcatatgc aaaggtatga 180
 ctgagaacaa tatacctccc tccatacctt cgcatagcaa ggagcctact ggcaatggca 240
 tatgaaagtt ntaattaaca ttacaggcaa agaatactct cctgtgtgct ttcattgattt 300
 tatatttaga tcgactataa acattcgtaa gtttaaaaat caat 344

<210> 15864
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 15864

tgaagtgaga aagtgtggaa gagtttttct tccttctttt attcgttgac cacaaagtgg 60
 tacctggaga tatgtcgcgg gggtcaggag accttgggga catcagggtgg ggtgctattt 120
 cccaaaacca agcttgacca atcccgaccc aaccgggtca tagtcagtca gtgaaaacct 180
 gtgatgtacc taaacaggcg agctcctggc agtcaaacga taaaagaaca aagaccacaa 240
 agcaaggagg cttgtgtggt ggctggccag ctatggatct tgagtgatat ttggaatatg 300
 gcctctggta atcgattacc aagggtgtgt aattgattac aaggcttaaa aatgaagaca 360
 agaagttaag atggcctatg gtaatcga 388

<210> 15865
 <211> 162
 <212> DNA
 <213> Glycine max

<400> 15865

atcttgtcct gaaggcccct ttcattgttc gaaggaatgc cctcttcca taggggcttc 60
 ttaagatcat tgcaatactc tactacacga ttggtagtct gggacaacga ctaacttttg 120
 tgttaaaaca tggataattg tatcaaactc ttgcaattta tg 162

<210> 15866
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 15866

tcaaataatgt tcaaaagcgt aaaacttcca tcttcttctt tcttctattc ccttaaatcc 60

tcccacaata cccccaagct cctcctccac caccactgac taccagtgat cgccacaagc 120
 tgcttttagct tgccatcgga tcaactgcacg gaggagaata gcttgatcgg agaggaatct 180
 taaaaactca actcgaggat accgtagaga atgaagccta caatccttcc ttcattggtt 240
 ctgccaggga atcatgattc taagccttct ccttgttaga tagagtctat ctttgcattc 300
 cttgtgactt gggaaccatc attggatggt tctatacttc ctttgagaaa ccctcgaaaa 360
 tgagacattg taaaagttat ctattcataa ca 392

<210> 15867
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 15867

gtggatcata aananctgag gccttgannn cctgggcaca taagctagac ccgggggccc 60
 ggatctctta tagcacgcgt ttcattgacaa ctgggctgat tatggggaac tctgtcagca 120
 gtgagtacta acgtggccag aatagcgaat tgacgccaca acaatggtgc tacaccattc 180
 atatatgcac gcgataaacc gccattccc tgatgccaac tccaactgag cttactggac 240
 tccacgtaga cgctattgtc taggataaaa tgaacgtgac tccattctatg ttttaagggt 300
 acttaagatt cagagggacc tctgtcttat taagaccagc ttttcaaaac tagctttata 360
 aatgcatgtg ggaaactctt gtagacaaca aaaaaatata gggttttttct ttaagacacc 420
 ggagaaatcc ttatcg 436

<210> 15868
 <211> 392
 <212> DNA
 <213> Glycine max
 <400> 15868

cttagaccgt cgctgtagcc atcgtgcccc tcaactattct tcaaccata ccagtccacc 60
 cactcccacc tttgtatccc caccacccaa actttctttc cgtcgattat caccggagga 120
 gatagccatc aagcgagaca aggggtctcta ttattattgt gacgagaagg ggtaacagg 180
 gcacgctgc ccccccgca tccacctct catcgagac gaagatgtgg atttgcctt 240
 atcaccatgc ccaccgaat cccaattcca tcaaggggtt cttctccacc gttgccttcc 300

gacgactctc cgccttaatt aagcttgaac gcgatgccag gaatgctagc tcttgaacc 360
 tttcgtgcgt atggcaccga tcagcatcac aa 392

<210> 15869
 <211> 541
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 15869

tctctcactc ctcatgctat cgcattgtat atgttaatcc tctcatagca ttaacctaat 60
 gccacgtgtc agactcttcc anntttagaa cctggaatcc ttagccattg aaacctgcga 120
 acccataggc gaatagagct cgggcccgcg gatcctctaa gtcgacctgc tggcctgcaa 180
 tctttgcaaa aatagaacat taatgtgaaa agggttattg tggtactgac acttgaacaa 240
 tacaacacac ttacctatct ctccgggtct tggtatacga tgggtgtctcc aataccaaat 300
 gctatgagat gatctatctt agggcccaat gttggtctag ctaatatgca ataaaaagag 360
 ttacataatt ggtccacttt ttatttaata aattattatt tgtgatctct atggggcaca 420
 tttctctccc ccaagaaagt tgaaatgaac ctgtaatgtg aggaggattc ccattaatta 480
 acgtggaatt aataacctcc ttataccact cacacttatt gtgattgatt gttccataga 540
 g 541

<210> 15870
 <211> 386
 <212> DNA
 <213> Glycine max
 <400> 15870

tggctcctct gtaattgtta actgcaggct accttatctc ttcgcatagt gacattttat 60
 gctacgcagc ttcttgggtc aaactaccat tgccgagagg tatacttatt tgagaatgtg 120
 tgctttttta acaaacatca cgtctcttaa aattaactgt ttcttctttc tggtgactgt 180
 gagtggtaaa ctatgcaagc tggattcttt tcaaataatc ttttgattta actccacttc 240
 atgtatcgtg caggggtcta aacttgctac actgcctcat ccagatagtg tctttgaagt 300
 cctcttgatt aattgttagt atactattgt tcttgagttc ttttagctatg actccttttt 360

ggttgatatg gtgctcattt ggtttt

386

<210> 15871
<211> 334
<212> DNA
<213> Glycine max

<400> 15871

tatcttgcca actttgaact tcttccaaga ttccaaccag aaaaatcagc ctcagttaat 60
gtatgatatt acatgatgct tgctttaatt taattttgtt ttgttttagtt tctctatttg 120
tagatttcat tgatgtcact tgggaaaata tgatgatgac acatgacaga gttattatca 180
ctttgccttg ttttatgaga ttttagatta atgaagtatt caatttatgt tcttaatgta 240
agggtgtgaat taatctttgt tcttgcaat gtttcaagac ttcctttatt catcatccct 300
tccatttggg ggtttttcaa gatatactgt aatg 334

<210> 15872
<211> 385
<212> DNA
<213> Glycine max

<400> 15872

tgaggatatt gtgccatagt aggccagata tttcttatgg tgtgggcttg ataagcagat 60
atatgaatga ttcgaggact tctcatatgg ctacaacaaa gagaattttg agatatgtga 120
agggcacact tgactatgga ttgctattct ccaaatcata tcataatcaa agaataaggt 180
taattgtttt ttctgatgca ggagtgggta tgtagaggac aacaaaagca ccactggata 240
tgtcttcaaa ttacttggat caacaatctg ctggagttct aagaaacaag aagatgttgg 300
acattcaact tgtaagtcag agtacatggt tgctgtctta tcagcttgac aattagcctg 360
gttggagtca ctctttgcag aattg 385

<210> 15873
<211> 360
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15873

agctttggca atcggtcggc tgacttaaat gaatcaaagg aaattgatgg aaaatttgat 60

ttctaataa tttcaatcta taataaagac catgtaactt ttacttttgt ttctgtatat 120
aatataataa tgatggatga ctatttgatg gggtcttaaa gcctgatgaa gttgcagctt 180
tctatttggt ttattgaata gttatacaga aataatcctt caatttctct gtctctctct 240
ttgaactctt ctagtgtgta ttagttatag ctagatttaa tcaatctgtc agcattgaag 300
aattgtaatt tcagactttg atctttgaac tgaaaatcat ctgcattgnt tgtttgtttg 360

<210> 15874
<211> 400
<212> DNA
<213> Glycine max

<400> 15874
tgcccagaga aggagtccac agaggaaatg cttaccacct caaaagactg gaaagcgggt 60
tctaataact cctctgcggc ctccacataa ggcatagagg acgggcagct cactaagatg 120
tcttctctgc ctgacacgat gaccaaactg ccctccacta cgaatttcaa cttttgggtg 180
agtgtagagg gaacaactcc cactgagtgg atccacgggc gccccaacag acagctgtag 240
gggggggttaa tatccattat ttggaaagta acttgacagg tgtgatggcc tatctgtact 300
gggagatcga tctctcccct aacctctcgg tgggtgccgt cgaaggcacg aaccaccatt 360
gaactcgatt ttaagtggga ggcattgaat ggtaatttct 400

<210> 15875
<211> 354
<212> DNA
<213> Glycine max

<400> 15875
agcttgaagg catgtaactc caccatctt cttatagtag aacaccggta atgtgtccac 60
tatcattggt atcatctccc tctccatcat tgggggcact acttgagctg ttagatccct 120
ccacctttgg gtgtattctt tgaaagattc atgctccctc ttacacatgt tctgtagctg 180
cattctattc ggagccatat cagaaatgta ctaatactgt caaatgaagg caaccattaa 240
gtccttccag gaatggacc gagaaagttc cagattagta taccaagtga cagatgtcct 300
agtaagactt tcatggaaga catgaatcaa caatcttcat ctttcgtgta tgcc 354

<210> 15876
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 15876

ttttctgcaa cctctctcct ctaaaaattg cacattgcat cctctacctc aatcttgcat 60
 ccttcatcaa atcttcaactg agcatctgcg attcatgtaa gtttctaact tcccttattc 120
 ttttctatta ttgatacttt aggatagcaa ttttaatttt aggggttagat tgtaagtaga 180
 atagataaaa attaggactt tgtaggaggt tgtaagtggg agataatggt gactgtgttg 240
 catgtttgat aagggcctat tagaggccta caagaggaag tcgaaagact tcttcgtctg 300
 catttttctt ggaaaacgtg atgaactcgc taagcgcgctc taatgcgcta agcgagttca 360
 ttaattaagc cttgaatgta tacatttcca gacgaactc 399

<210> 15877
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 15877

agcttaacca cagttttcag ttacacgtca gaatttttct aaccgacca cagcttacag 60
 aaataaattt gcagtcaagc aaatgggaat gagacaatta ttttatggg cagggcaggg 120
 ttgggtcttt gtgaagtact agtgtattat tacttacaaa tcaacctcta tgtagtagtt 180
 gtacttaaca ccttttagaca cgtggacaat tctctttcat ttaatttgcg catacagcat 240
 acttttttcc ttcttttttt tctttgtatc tttcattttc attaaaccac ctgcgatgag 300
 tcacatctaa cagtaaagta aaacgaaaat atagcagaca aaggggtaga atgggtccatt 360
 ag 362

<210> 15878
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 15878

tgagtacacg aagaatctga agtataaagt ctatattcta ttgaactcga ccaatgactt 60
 gattcattgg gatgggtccaa tgaactcgcg ggtacatatt tatttaggta ttgctttatt 120

aatatttata aaacaaaata aaatgaatta aacaagtttt cttagaagat gaattaaaga 180
gataaaataa atgtaattta tattataaat taaaatactt taaaactctt gaggttgaga 240
gtgggatttt gggccaaaac cgggggcctt ccgcaacgaa tgaagcccat gttgctgagg 300
aatgagcagt agtaacaagt atgaagagat agataatcca taagcataac tgaagatgtg 360
cacggtgggt tcaagttcaa tccttggtgg atggctttc 399

<210> 15879
<211> 359
<212> DNA
<213> Glycine max

<400> 15879

atcttggtgcc tctctttttc gctcacttga acttatactt aagcatatac ttgctttatc 60
tectaactca catacttact tgagcgttag agtcctttgt tttgcaggtc cccctcctat 120
cctcttgaca aaggctcttc tcaaagccca cgtgcaaaat gcagaagccc acttcagcca 180
catccaccct gatgtgtgtt agtcccgat tttggtaagt acatttggca tccaccatgg 240
ggccgcagta aaacatatcc tgcggtctct cgtcaacttt tgtcaataga tccagacgag 300
catctggatg ccttccgagc ttagctcacc taggcgagct ggttacttca cctctaagt 359

<210> 15880
<211> 353
<212> DNA
<213> Glycine max

<400> 15880

tcaaaatggt acggaaaaag aatcagcaaa aaaagtgcaa gggggtatag ggggtgcaaa 60
tagcaacgag gccacttgg gccttccatg aagttatcca aaaggcggtg ccttctggag 120
gaagcaacct agtcgcttg ggcgagctgg gtgacaatct tctacttctt ttgcctatga 180
ataggggaag gaggggaataa ctaatctgtt caaccctcct ggaatgtgat attcactcaa 240
aattacggag aaaaattgct tccggaaga atatcctacc cgatgcactt ccgtaacgct 300
ttcttgacct ttctgtgggt gataatgcga agatcttcaa ccgtacttca tcg 353

<210> 15881
<211> 361

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15881

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tattcaatcc ttgatgtttt cagcttccca ttggtatatt ttcttcatct tttggtgctc 120
caaattgtgg gaatatgctt gtatttgtgg ggcagttttg gtttgttttt atgcttgttt 180
tcttagagtt aaggatttga atgagaagac cttangccta tgctgtattc tgaacaatg 240
gggcatgcca cattgtcccc atcctcttgc aatttatgtc caaacatgcg ctcaccaagt 300
gctcagtga atgccccaat gatgtatgaa tatgattttg taaaattggg agagtgggac 360
t 361

<210> 15882
<211> 396
<212> DNA
<213> Glycine max

<400> 15882

tctggtggga catcttgact tgctttccaa tctgacattc acttctagat tctgccttct 60
tctattttca gattgggaat gcctctcaca gcacctttgt caatgatttt cttcatgcct 120
cttaagtgca gatgtccaaa tctttgatgc catattttga cttcatcttc tttggaggat 180
agacatgtgg aggagtaact ggtttcttga ggtgtccata ggtaacaatt gtcctttgat 240
ctgctgccct tcattagaac ttactcttc tcatttgtca ccaagcattc tgactttgtg 300
aagtttacat tgaatccttc atcacacaac tgactgatgc tgatcaagtt tgcagtcagt 360
cccttcacca gcagtacttt gtccagacta ggaagt 396

<210> 15883
<211> 343
<212> DNA
<213> Glycine max

<400> 15883

ttcttcttat ccaaggcaat tcttgagggt gaagctcctt cttccttggc ttattcccta 60
gtggatggtg cctccccgtg cctcttctcc ttttgcttcc gctgcatctt catggtggaa 120

aatcaccatt gaaagacctc attgaagctc aaagatccag cctccataga agctccacaa 180
gcaagcttcc atcaagtggc aatcagagca caagagcttc aagtatgtgc tccttaaacc 240
tacattaata tttttgctta ccttctcttc cattgttttt tattcatttt tgctccatgt 300
atatectcaa atgccttggt ctaaagtgtg ttaacatgat tct 343

<210> 15884
<211> 386
<212> DNA
<213> Glycine max

<400> 15884

tggtaaaaac ggaagaaaat gaaaccttta atgatcttac tgatgacgaa agcttaaaaa 60
caagaaagga attaaaagtc tcggattcga aaacttacct gttgaagaac gaagaacgaa 120
cgaataacga atgaagaacg acgaaaaacc ttcacggatt cgctcacaga aacatctcgg 180
aaacgttacg gaagcacctc ggcttggatt ttcttcacgg aaacaatttt tttcacccaa 240
aatagctgaa atgcatagct aggcggatct gggatcctta ccctttcgcc tatttatagg 300
aaaaaggggg aggaggttgt cgcccagctc gccagggcga gctgcattgc tatctctaga 360
agcaaccctg cttccaaaat actcta 386

<210> 15885
<211> 422
<212> DNA
<213> Glycine max

<400> 15885

ttgagcttga cattgaggcc ttgatcactt aggcgattct agctcgtacc cgggatcctc 60
tgagtcacct gaggetgcat cttacaggaa acccttcgca ttgtataatt tatttcccc 120
atgaaccag agctgtcttg gtcaaactat gatcccgat tcgttaaccg ttggatcatt 180
gtgaaatttg gatatgtcgt tcgaaatata attgggcccg ctataaccgt tgtgatttgc 240
gagatgatgt tcgtggaaag agaaaaatga atcctatgaa gataggctaa atggaggctt 300
caatccctct tacgtttctc ttatgttggg gaaccctatc tgagcagtca gaggagacac 360
tggatgactc ttatggaact gctcaatatg ttttatctct ggctgaagac acgccactcc 420
ct 422

<210> 15886
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 15886

tctcaacgcc ctaaaccceca gaaaccceca ctaataaaat tattccaaaa aaaattaaaa 60
 aaaaataaac gcataaaac cctaattgcac cagaaaattt caggaaaaaa aaaaacctac 120
 caacacaacc ccatctttgc acttgatccc aataacagtc ctgcaacaaa gtttcaaatac 180
 taagatcact accaatacaa aaattacaaa atcatttaaa aaaaaaaac atactcataa 240
 ttattaaata aactcttttt ttcaatttta aaaccacgaa tttaaaagta taataataat 300
 aataataata ataataataa tgataagtac caaccgctg ttgtcgacgg ctttagcggc 360
 atactcgatc tggaaaacgc ggccatcagg ggagaaag 398

<210> 15887
 <211> 332
 <212> DNA
 <213> Glycine max

<400> 15887

agcttgtaag attatggggt acccatcaca tgtggtacta tgtggcggtc gggcgatggt 60
 gcaaatcaat tctccacatc cacaaatcac acataagccc accatcccca gttgccacc 120
 ttcattgagc tcacgtactc ccacgtagcc cttatctctg ttctctcaa cgccgggtcc 180
 tcatgaattc tcccaagctt ccacaacatc caattaattc aacatcccag catcatgaac 240
 taacacagtc aagaatacat ggcagatgca gaatactctg cccaacaca aacaatatca 300
 caattttctt acttaagacc cagaacattt ct 332

<210> 15888
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 15888

tgtataattc cccaatttat gggtattttg gagtttattt agtaaataaa tcttgtttta 60
 tgggtaacgc tatctctaga atattttcat tggattgaat gatgaaatct gtgcattttc 120

aggtgaaaaa gaggctaagt tttgaattgc aaaaagtagc agttgggcta agcgcttatt 180
 caccgctaag cgtagcttca gagtgcttag cgcaaaggag aatctggcag agcatcagga 240
 tcaaagctgc gcgctaagcg tgagatcagt gtgctaagcg tagtaggtgc cttcagccag 300
 gctaagcgcg agactggcgc taagcccaat tccacttact cgcgctaaga gcgaaggtgg 360
 cactaagcgc aatgtcgcg tttcagggcc tat 393

<210> 15889
 <211> 348
 <212> DNA
 <213> Glycine max

<400> 15889

agcttcttat tcaaggcaat tcttgggtgt gaagctcctt cttccttggc ttattcccta 60
 gtggatggtg cctcccctat cctcttctcc tttgccttcc gctgcatctc catgatgaaa 120
 aatcaccatt gaaggacctc attgaagatc aaagatccag cctccataga agctccacaa 180
 gcaagcttcc atcaagttat gaccatttga atgtctcgag atcttccgtg gttcaatttc 240
 aggcgctctc atatgtcatg tgcctgaatc ggacctccgt aagaaaattt atgaccattt 300
 gaacttctct agagcttccg tagttaattt cgagcttctc gatatctg 348

<210> 15890
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 15890

taaagtatgc ccgagtcatt catccctatg agatgttggt gaagtattgg cgatcagaat 60
 tgccattcct tggattatag gggtgaacca agctcatgct tttaaaaaa gggtcatcaa 120
 gtcaagttga aatatggaag taaccgtctt gcaaaattgg ggcaaaagat taatcgagtc 180
 acatcactgc ttcacttact gccaaacata tttaggatta ttgatgtcct tgttacttcc 240
 agtttcacct tgacaaagat gtcattggacc atgttgaaaa tctaaattga ttcaacccca 300
 tatcttgctg aaaaattcgc aatacttcaa ttgtacatca ttgcgatgca tccatgcttt 360
 tcattggttg cattgctcgt tgcattcttt c 391

<210> 15891

<211> 345
 <212> DNA
 <213> Glycine max

<400> 15891

agcttggttc gaggtactta cccgtggaag atcgaagaac gatgaagaac gaatgaagaa 60
 cgctgaagaa cgattgaaac ctttgcgaaa ttcttcacgg aaaacggttac ggaaacgttt 120
 cggaagcgcc tcggttaga ttttcttcac ggaaacaatt tttccaagca aattcgaaag 180
 agagagaagt gcctaaaggg ctgaaccctt tgcttcttca cttcctcccc tatttatagc 240
 acaatagggg aggtgcttgc cgcccagctc gccagggcga gctcaactcg cccaggcgag 300
 ccatgttgct tgctccagaa gcaacagtct ggagggccca agtgg 345

<210> 15892
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 15892

tgggaggatt gatggggacc cggtgttgag agattcaagg atatgggcta cgtgggagta 60
 cgtgagctca gttggagggtg ggcaacaggg gatggtgggt ttatgcgcgc tttgtggatg 120
 tggaaaactt gttgtgcacc atcgcccgac cgccacctag taccacatgt gatgggtacc 180
 ccataatcct acaagcttga gatgaggaag tgtaaaaggg tgaaacttcc tgcttttatt 240
 gttgaccaca gagtgttacc tggagatatg tcgcgggggt taggagacct cggggacgtc 300
 aggtgggggtg ctattgccca aaaccaagct tgaccaatcc cgaccaacc cgggcatagt 360
 cggtcagtga gaacctgtga tgtacc 386

<210> 15893
 <211> 218
 <212> DNA
 <213> Glycine max

<400> 15893

ccctgctaca ttccatgctc aatgtcactt ttgacccttg ctcgggctgg gaatgggctc 60
 attaaggttt aaaattcttt ttacggaccg tactcatatc gaaatgatac acaatgtcca 120
 ttccaaactg tccttttcaa cacaaatgtt ctgaaaactt tgaagggccg atataagacg 180

cctcaaacca tattgaggga taatgattgg gtgtaact

218

<210> 15894
<211> 382
<212> DNA
<213> Glycine max

<400> 15894

tgtgcattca atatcctgat gaggggtgtc catatgttct caagactgga ctaatacatt 60
tgctgcccaa gtatcatggt cttgcagggt aagatcctca taagcatctt aaggagtctg 120
atattgtctg ttccaccatg aagccccctg atgtccaaga agatcatatc tttctaaagg 180
cttttctca ttctctagag ggactggcaa aatattgggt gtactacctt gctcccaggt 240
ctattttcag ttgggatgac ctttaagagg tgttcttgga gaaattcttc cctgcatcta 300
ggaccactac catcagataa gacatttcaa gcatcacgta acttagtgga gaaaacttgt 360
atgagtactg ggaaagattc aa 382

<210> 15895
<211> 348
<212> DNA
<213> Glycine max

<400> 15895

tgcattctac tacttccaac aaaaactctt catttacttg gcatctcttc aattcacaat 60
tattcacttc acacctattg acaatcgtgc tcactttaaa agcaatgatc aaatcaatcg 120
tcagttatgc cattggaaac aagcaaatat taaataccac actctagaaa acgctataat 180
ctaccttctc ctacaaatcc tctttcactt ttctgtccag actccacttc cacaccatcc 240
acaaaatgaa ccgcacatct ttaacagcat caagtgaagt aagtcattcc tactctcctc 300
ttcacgccag caattgtttt ttcttttct caaaatctac acttaatc 348

<210> 15896
<211> 385
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15896

nttcgattca ttctatgtac ccattgggtt ccacattgtg tttcgtgtat ttttattctc 60

gtttcattta ctttttatat ccccttttga cgtgcttaag ccattttact taagtcattt 120
 ctgcgttaac ttaaaaataa aataaatttc caccgatcgt ttgaattgta ttaaccgtta 180
 acttcggtta aaatgaattc cgaccgttcg gtcgtgccgt aaccacgttg gaaatcaaaa 240
 aaagagataa aaaaataata taataataaa aaaatacctt ttagtaaaat aaagcgggaa 300
 atcaatcgga cgttttctct ttgggatttc tcattcttaa tcgaattgac taataactaa 360
 agtgaaacta aggctaaaat caact 385

<210> 15897
 <211> 346
 <212> DNA
 <213> Glycine max

<400> 15897
 agcttagcca tggcagttgg agagcacatg gccttctaaa cccccacaat agaatctcat 60
 acattcaaag ctaaattgtca cttttgatcc tttatgtttt tgagtttggg tacattaagt 120
 tttaaaagtc tttttttggt ccttactatt ttfgaaatgt tacatttagg tccttttttg 180
 aattctccgt ttacgacgct agtgttctgt taacttttta attcagatat aatacttcac 240
 aaaatatatt gggggataat gcttgagtgt ctctatctat gacacactca gctggagcgt 300
 ttatatgtat tagatgacac aaaggtcaac aagtgcacaa gagagc 346

<210> 15898
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 15898
 ttatcaaaaa tcttttctct ttttctctcg actattcttc attcttctcc ttcttttcac 60
 ttttgttctt cctttttctt gcacaaatta tgtggctctt ccactgggtga tgatcatgga 120
 aggctaaaca ctcaatcaat ccaagggtcc actccaagca aagcctaatt tgagttttgg 180
 tttagtattt ctaatatgtg tgaatgctca tctttttctt caatectatt ttcgattttc 240
 atgattatga atatacttag gattgaaaat gaaatagttt agggattcct ttcttaattt 300
 cgactttaat cacagattgt tttagatgat attccaacct aatttgtgat ctcaatgaat 360
 ttatggatta atttgattga aacaactcta atgacattga 400

<210> 15899
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15899

agcttgtgaa gattacaaaa catcttatat agcttgaaaa tttatatgag cattgtccgt 60
 tacctaaaat ttatatccgt caatgactta ctaggaatcg gatgtgttaa ataatacaat 120
 ataaatctta ttaatatcca aaagagcact ataacaaatt atacattctt tttcttgtat 180
 tgcccattat ccaccaaca atatacaaga caaaaaatta tctttattat gtgactcaca 240
 agttatcatg tgttatctac ttggtctata ctttaatgtg tatcanatac accctattga 300
 atcgaatcca gatgttcaat caaagagtat attattgtta caacttatac atta 354

<210> 15900
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 15900

taatggcaga gcctactatt gcttttccct ttggcggaac aacttccaaa tattactcac 60
 acatttcctc ccaatcatag taggttgac cagtgattgg cctactgtcc acccttatgc 120
 caagctgtag tgctacatcc tccagtgtaa ttgtacattc tccaacagaa agatgaaaag 180
 tctgtgcctc tgggtctccat gatcaatttt gaagtggcgt aattttgcca catcagcaaa 240
 ctgagtatga gcaagcaaca actcaattaa aggggtgagga gcgggcatca aatgagaata 300
 caaaatgatt attgtacttt gtccctataa aacaaaagat acattttcat aattgtcacg 360
 acaataaaaag gttataatat caattaattg gtacttacca tggt 404

<210> 15901
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 15901

atcttcataa ggccttgtat gggttgaaat aggcctccag agcctggaac aagagaacag 60

atacttttct cttacaagtt ggattcatga gatgcactac tgaatatggt gtgtatgtta 120
aaagagaaag tctttcagac atcctcatag tgtgtttata tgtggacgac ttgttgataa 180
caggaaaaga tttcaatgct atctcgacat ttaagcaaga gatgaaatct gaatttgaaa 240
tgtcagatct tagagaatta tcatattttc tgggcataga gttcaagagg acaaaggctg 300
ggatttttat gcaccaaagc aaatacacia ctgatgttct aaagagggtt caaatgtttg 360
act 363

<210> 15902
<211> 401
<212> DNA
<213> Glycine max

<400> 15902

tgccagcagc aacagatttc ttgagatgaa cgaggacaag cttctttag gttgcaggca 60
actccttggtg cttcccttcg atgtatttgg ttatcgcgta ttggctcgaa ccggttctct 120
ctttcagact cgcaatcgcc tctgctatca tctacagaat aatcaaatta aatacaattg 180
gaaaagaaat aaactaagag aattgatttt gaaggagagt attttgggaa agtaccacgg 240
cgaagggagg gtgggagagg ggcttcttgg acgacgccgt tttcttggcc ttgggttgcg 300
atgcggtaga catgatgatg gcttgattga aactcaaac gaaaaaggag taaccgttgt 360
tgaaattgaa acaagagata gatagaaatt ctgagagaga g 401

<210> 15903
<211> 345
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15903

agcttcaaca tcagaccact tccagggtgc tggaactact tcacatggac ttgatggggc 60
ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttgttgtg gatgatttct 120
ccagatttac ctngtcaac tttatcagag agaaatcaga cacctttgaa gtattcaaag 180
agttgagtct aagacttcaa agagaaaaaa actgtgtcat caagagaatt aggagtgacc 240
atggcagaga gtttgaaaac ggcaagttta ctgaattctg cacatctgaa ggcactctc 300
atgagttctc tgcagccatc acaccacaac anaatggcat agttg 345

<210> 15904
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 15904

tgtaggatta tgggggtaccc atcacatgtg gtactagggtg gcgttcgggc gatgggtgcac 60
 aacaagtttt tcacatacac aaagcgcgca taaacccacc atcccctatt gcccacctcc 120
 atctgagctc acgtactccc acgtagccca tctcctcgtt tctctgaaca ccgggtcccc 180
 atcaatcctc ccaagcttcc acaacatcca agtaatacaa cattcaaaca gcacaagcta 240
 tcacagccaa gcaaaacaga gcagaggcag agaactctgc caaaacacca accagatcac 300
 agcttttctc acttgaagac ccagtagcca attacttcga tccaattcgt taaccgctgg 360
 atcgactcca aaattttact ggaagtctat agtacataac cct 403

<210> 15905
 <211> 347
 <212> DNA
 <213> Glycine max

<400> 15905

agcttgtagg attatggggg acccatcaca tgtggtacta ggtggcggtc gggcgatggg 60
 gcacaacaag ctttccacat ccataatgcg cgcataaacc caccatcccc tggtgcccac 120
 ctccaactga gctcacgtac tcccacgtag cccatatact cgtttctctc aacaccgggt 180
 ccccatcaat cctctcaagc ttccacaaca tccaagcaaa acaacattca aacagcacia 240
 gctatcacag ccaagcaaaa acagagcaaa ggcagaaaac tctgctcata caccaaccaa 300
 aatcacaagc tttctcactt aaagaccaca gtaacaattc cttcgat 347

<210> 15906
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 15906

ttgagaaaca tgtaaccctt tggcatcatc aaaacattca gcttgatcct ttgtctacaa 60
 tctccccctt tttgatgatg acaatcctga aatcaagaca agctatatac aagatgatag 120

cccgttcaca tagcccttac tccccctatc ttttggcatg tatgcctaac tttaatgatt 180
 ttaattgatt tctaacccaa gttctctccc cctttggcaa catcaaaaag aataagcaag 240
 acaatcaata gataaacaga gtcaaacatt aaaccaaatt aaatccatac attgtcataa 300
 tcaaccaaag caaagtctag aaatataata atagtgcaag attacgataa ctagagcaac 360
 aaagagccaa atacacggtg ata 383

<210> 15907
 <211> 188
 <212> DNA
 <213> Glycine max

<400> 15907

atggattgga acctcaattt tattgtctct gtgcgagggg catttttttc tctacaaaca 60
 ttattttgca aatcccaacg gtgggaatat gcggaaatga gttcccaaag tgggtgtccaa 120
 attttatgat gctccaatgg ttaatgaata tgggatcata gttttactta gacaagtttg 180
 ggtgtatg 188

<210> 15908
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 15908

tcagagctag ggagacatct ctaattctag tcagtttgag ccttagatta gggagatgat 60
 ggatgagaag aacattgttt ggtgataatt ggaatagaag atcaaaagag atgatttaca 120
 aaagcctgtt tggggaattg tagtacatta taaaaccaac acaaacatgt taaaatgatt 180
 tttggcttga gaaatcatac attcttattg tattgtttga ttggaatcca catgaaaaag 240
 agcgtgtatt gagttaaaga ggaaagtgg ctcaggagtc aagactagaa gtgtttgtgg 300
 ttcaacttgc taatttggaa tggatttttag ataaaaggtc atccaatccg aaaataaaaag 360
 tacagcttag tttggattta tttgaataca atat 394

<210> 15909
 <211> 335
 <212> DNA
 <213> Glycine max

<400> 15909

agcttatcta gttttaatgt taggcctatc gaaaattgtc tggacctgca aacttgacat 60
tcttgatatt gtcttaggca cgaagggtgt gttaaaaata aagatctccc acattgcctg 120
ggaattcaaa caaaatactc cttatcttgg gtttaaataa catccacaac cacaattgtg 180
gctacaatac caatgtatct tgactcatca caatgcaacc gcaaccgtaa ttgtgatcgc 240
atcagctgca ttttcccgtc atataaaagg tttttaactc acctaaatgt aaccaccatc 300
acaaccacaa tttaaacaat ggttctataa aacat 335

<210> 15910

<211> 393

<212> DNA

<213> Glycine max

<400> 15910

tggttacctc cttcttcaat acatcaagaa tcatcgggtt gagtcttctt tgtggctgtc 60
ttactgggtt agcccatcc tctaaattta tctgatgcat acatgtggat gggctaatac 120
caggaatgtc cgccagggtc cagcctatag cttcttatg cttcttgaga acagataaca 180
acttctcctc ttgctcatca gcaaggagg catatataat tactggaaaa cttttgcttt 240
tatccaagta agcatatctt aaatttgatg gcagaggctt caattctggt gtgggcggct 300
ggataatggt agaaagagat ggtttctcag cctgtacctc ataaagaaag tcagagggtat 360
gtgtacttcc tgaaacatgg ttaattctat ctg 393

<210> 15911

<211> 349

<212> DNA

<213> Glycine max

<400> 15911

agcttatgcc tcatggccag ttgactgtgg gggctcacat caatcctaaa ttagctcctc 60
attactatgg cccttttaag gtgttgagga aagtcggagc agcggcctac agactttctg 120
aatctgcaag gatacatctg gttttccatg tgtcactatt gaaaaaagct gtaggtgatt 180
acaatgttga ggagacactt cccttccctt ggagttggtt agtgacaatg cagcaagtat 240
ggaaccagag gcagatttat aattagctcc gcctctgtaa cattaagcac catctttttc 300

ctaagaaatt tatatactgg gtttctagtc tgggtatttt gctttcatg

349

<210> 15912
<211> 394
<212> DNA
<213> Glycine max

<400> 15912

ttagctctca acccaaactc tcctcacaaa atctgatttc aggcttaaatt aggtggcatt 60
gttcgtgctc gtgcgcttag cacaattctg gaccgcttag cgcacattag tgaatttcgg 120
cttagcgctg gcctttctcg ctttagcggat ggactgaagt ggtgcgcttg gcaaacctgt 180
acagctcatc ttcttcacaga ttcttccttg cacttagcca atgagtgttg cgcttagtgg 240
acgctcgcta agctagcggg ttggcttagc gagaaggtag aaaaaccact tttaaagct 300
tgcctaatta acctgaaatt gagagaaaat gattattaaa cacataaaac agaattacta 360
agtatttatt acctatcttt aactaaaaga actt 394

<210> 15913
<211> 333
<212> DNA
<213> Glycine max

<400> 15913

atcttgagat gaggaagtgt tgaagggtag aacttctgc ttttattgtt gaccacagag 60
tgggtacctg agatatgtcg tgggggtcag gagaccttg ggacgtcagg tgggggtgcta 120
ttgcccaaaa ccaagcttga ccaatcccg cccaacccgg gcatagtcgg tcagtggagaa 180
cctgtgatgt acctaaacag gcgagctcct ggagtcacac agataaaagg acaaagacc 240
acaaagcaag gatgcttggt gtggctggcc agctgtgaat tttgtgtaat atgtggatta 300
tggcctctgg taatcgatta ccaatgggtg gta 333

<210> 15914
<211> 400
<212> DNA
<213> Glycine max

<400> 15914

ttgagccaaa atcttgactc accataaacc ttgttccagg gtgagaatgt caatccttac 60

cctcagaagc aaaaaaagaa gagaaggaaa atttccaatc aaaggaaaaa ggagaaggaa 120
aatttccaat caaagaggaa gcaaaaaaag gaaagaagga aaatttccaa tcaaaggaaa 180
aagagaggaa aggaaattcc caatcaaaga gtgggagaaa gcaaaaagaa aagaaagaaa 240
attccaatc aaagaatggg agaaagaaaa aaagagaagg agaagaagga aagaaagctc 300
atgatcaagg atcgaaagaa aacaaaagaa atgtgcagag aggtctttgg accagacaat 360
atctgaacaa tacggaattg tcaccaaattg aacaaaagaa 400

<210> 15915
<211> 341
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15915

agcttgtaat aatcaattat tgtttggatc aatacaatcg attataggct tgtaataatc 60
aattattgta atataatcga ttataagctt gtaataatca attattgttt caaagacaag 120
tttgaattga tataatcaca taaggcttac tctcatattc aattattggc ttgataaaaag 180
tgttccatag aggaatttga cgaataaaga atatctaaaa gaaattttta ctntttttga 240
aaaccttaat tatattttta ggtttcaaaa tattttttaag ccaatctagt tcaattttga 300
agccttaatn attaaacgac acttagaact ttctctgttt t 341

<210> 15916
<211> 383
<212> DNA
<213> Glycine max

<400> 15916

tcacacattt cttcaatggc ggactgggag gtgtagata aattagaatt gttttccgat 60
ggtggtgaaa ttcaaatggg atggctgtag gagaaggctg atggtggtga cctaatttag 120
ggggttgaga aagaatgcat aggagttgat gtgatgcaag atagaggaaa cacatctcta 180
ggttgcaaaa ggttgtttgg aggggggttca ggtagggca gaaaggctc accaaatagg 240
gattcataaa tcaaggaagt ttagggataa ggagaaagga aaataggtga ttagggcagc 300
agacctacaa agctccttca ctaacatgga aagagggcta gatatgtact atcacatacc 360

tatagcaaag aatggggaga caa

383

<210> 15917
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15917

ntgtaggcat cgaaacctgg gccttttgat cccttaagnc acttagggct attgcactcg 60
gtccgcggat tctctatggt cgcccgagc ctageatcct ttaaagtggg taccacgcca 120
ttgtcttgag cctgagactt gtcaataaat attctaacag gtttaagcgc aaatatgacc 180
cattttcgcc attctccgga aagaccttag actgtcacct gggttttata aaactggccc 240
ttgacttgga ggatacaatt tagaccaaac cagtagctaa tccaaatgga tgttgcggtgc 300
ttttccggat aaacgtttta agtaacaaag ttccttattc gcagggacaa acttttttgt 360
gtgctagaag gcct 374

<210> 15918
<211> 379
<212> DNA
<213> Glycine max

<400> 15918

tcccgcaccc gtacttgga ggaatctgatt actgcctttt ttatgcaata tcagtacaat 60
tccaatatgg ctcccgatcg cactcagcta cagaacatgg ttaagaagga aagggagacc 120
tttaaagagt acgcacagtg gtggagagac ctggcagcac aagtgctcct cccatgggtcg 180
agagggagat gattgctatg atggtagaca ccttactggg gttttactat gagaagttgg 240
taggctatat gccctccagc ttcgcggtact tggatattgc cggggagaga atcgaagtat 300
gtttgaagag agggaagtgc tattacgtct cctccacaag taccaatact aggaggatcg 360
aagcaactgg ggcaaaaag 379

<210> 15919
<211> 347
<212> DNA
<213> Glycine max

<400> 15919

atctttttga acgtcatggg aagatcacia aggtggttct tccaccacca aagtctggac 60
 aggaaaagaa cagaattggc tttgtacatt ttgcagacag gtcaaatgct atgaaagcac 120
 tgaaaaacac tgaaagatat gaattacaac gtaacatatt gtccagcctt ttgtgggttat 180
 tttatgtgaa tggtgggtcaa taatatttaa ggtttgttct acgtttcagg tcaactttta 240
 caatgctctc tggcaaagcc acaggctgat caatagtctg gaggatcaaa cacacagaag 300
 ccaggaccag gattgcttcc aagctatcca ccccatgttg gttatgg 347

<210> 15920
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 15920

taattcgttt gtaccatctt attttcttct tctacaagag ctcatggaga agtttattca 60
 aacaggacct ttatttttagc tgttggtgct gttattaatg aatacttctg ctctgcattt 120
 ttaggtttcc tgcacgaatt cagaggctca ggttgatcgt ggggtgcaga agaaagagac 180
 tttcttttga cctgccttct aagctttagt aaggttgctc ccttaatggt gagttctggg 240
 aataacttga acagtagcag cagcaacagt gggataactt ctttagatat gccacccttg 300
 cccagtggtt taccactaga ttcaactaca gtacgcaata gaaaatatac aggagagctg 360
 aggaggggtc ttggtgtgtc tgct 384

<210> 15921
 <211> 324
 <212> DNA
 <213> Glycine max

<400> 15921

agcttctgtc ctttgctaac tattggactg aatctcggtc cgggcaatta aaaagatggg 60
 actgtacctg ccgaggaaga gggcttcttc gagggcgcag cggaggctgg attcctgggtg 120
 gcccagccc tcgaagatc cacagtgttt tccggggcag tcgatgcggg tgccccaata 180
 gaggtacttt tcgaagggtt gttggtgtcg tcgctgtaag aggttggtt tcgagacggt 240
 ggtggaaaga agagaggaga acaggaagag aagcgcaatc gctgtcactg ctgccgcgag 300
 gaggagaatt cgggatctcg cgga 324

<210> 15922
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 15922

tcaagaataa tggcctcagc atggtggctg gaaatactac aatagagaaa cctagagaag 60
 agtgggtctga agatgaaaga agattagtgc agtacaattt aaaggcaaaa aatattatta 120
 cttttgccct aggaatagat gaatatttta gggtttcaaa ttgtaagagt gtcaaggata 180
 tgtgggacac tttacaagtt acacatgagg gaacaactaa tgtcaaaaga tctaggataa 240
 atacttcaac tcatgagtat gaattattta ggatgaagac aaatgaaagt atacaagata 300
 tgcagaaaag attcacacat atagtttata atcttgcata attaggaaga acttttcaaa 360
 acgaggatct cataaataaa gtgttaagat gcttaagtag agaatggcaa ccaaaggtaa 420
 caaccataac agaattctag 439

<210> 15923
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15923

agcttattat atgattagat cttatattgt aaagtgtcac tatgaatctt cgtgaaatat 60
 gctaaaaaag tctatatgat agtcattaat aattttctag atgcttttnt aagggaccac 120
 taaaagctta agttaaacga agacacatca tgaatgattt gttacatctt taacaaaccc 180
 tagcacacaa gagccactct agcttcgaag cctaaataat gcgcatgtcc ttctatcatg 240
 tgctgatatt ngagtttggt taaaaatagt gaaggctatt angtaaacac acgtgaatga 300
 tttcatatta catctttaac aaaaatacga cgctcaagct aaagacatgt ttctatatat 360
 ctgnttacac tggaatttgg taacaaccgc tagtctaagt aa 402

<210> 15924
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 15924

tatataatac tcacgctgct ggccgaaact atggatcctg ttaaaataaa attgtttcac 60
aaatcgactt cagataaatc agatgagata cacatgcaca ggcacaataa attctaaata 120
aaatcattct ttttacatct atttcaagat gaaataaatg atattctgaa caaactaaac 180
atgcaagagg cataagaagt ctaccacaca acattaaagg agtggttggc aattggtaga 240
agtgaattt ggaggaataa gaatgaaact gagtatctgg ggttttagact tatgttgtgt 300
ctgaactcgt catcaatttt cactccactt tttccttttc gcatatatac aaagcacgcc 360
gagagtatca ttataaacia aatcatatta ccccttatgt gtctatcttt cttagaatat 420
gagctactta acc 433

<210> 15925

<211> 442

<212> DNA

<213> Glycine max

<400> 15925

agcttgtatg agtactggaa aagattcaag aaattgtgtg caagctgtcc tcaccaccag 60
atttctgagc aactccttct tcaatatttc tatgaggagc ttagcaacat ggagaggagt 120
atgattgatg ctgccagtgg tggagctctt ggtgatatga cccctggtga ggctaggaat 180
ttgattgaga agatggcttc taactcctaa caatttagta caagaaatga tgctattgtt 240
cttagaggag tccatgaggt ggccacgaat tcattctcat ctactggaaa taaaagctt 300
gatgccttgg tcaacctagt aactcagctt gccatgaata aaaaatctac accttttgca 360
agagtctgtg gtctatgttc ttctgcagat caccatacag atctctgtcc ttctttatag 420
caatctagag tcaatgagca ac 442

<210> 15926

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15926

tgtgactctn ggcaatttct ttaacaaaac cagtcactta aaaagttatg acttttgaaa 60
gaatcttcag aaacaagtca cttgaagaat tgtgactttt ggaaatgtgt ttttcgaaat 120

cagtcactgg taatcgatta ccattaaggt gtaattgatt acacatcaac agatgtgact 180
 cttcattttg aattttgaaa atcttaacgt tttaaaacac tggtaatcga ttactacatt 240
 ctggtaatcg attaccagag aataaaaactc tttggtaatg attttgtgaa aactttcttg 300
 gctactcaat gttttgaaaa actntttaat acttattttg attgagtcct ctgttgattc 360
 ttgaatcttg agtcttgaat cttgatcttg attattcttg aatcttgaat cttggaactt 420
 gattcttgaa tcttt 435

<210> 15927
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15927

agcttgata gttccncaat ttatggatcat tctggagtaa atttggtaaa taaatctttt 60
 tttatggtta acgctgtctc tagaacattt ccattgaatt taatgatgaa atntgtgcat 120
 tntcaggtga ataaaaggct aagttttgaa ttgcaaaatg tagcagttgg gctaagcgca 180
 tatccaccgc taagcgcgct tagcacaaag gagaatctgg cagagcatca gcatcaaagc 240
 taggtgctaa gcgcgagatc agtgcgctaa gcgtatcaag tgccttcaac caggctaagc 300
 tcgagactag cgctaagccc aatttcactt actcgcgcta agcgcagcgt cacgatttca 360
 gagcctattt aaagcctgtc ttgtgtagaa tganggtacc acctttacca cttttatgac 420
 attnntatga cagcttctac ag 442

<210> 15928
 <211> 447
 <212> DNA
 <213> Glycine max

<400> 15928

accttaaaac tcagcttcac aagcagcttc catcacttga taggttagat ctttttatct 60
 ttttcgaagg gacataagta tatcttggtt gctgctgagt atttcaccaa ttgggtggaa 120
 gaaattcctt tgaatgttga tcaaggggat ataataaact tcatagaaca aaatattatt 180
 tttcgattta gtatcccata aacacttata acaggtcaag gcaccatttt tattgatcga 240

aaagtgggttc aatatgtcaa ttctcaaaat attaagtttag taacttatac cccttattat 300
gctcaagcaa atgggtcaagg tgaagccata cacaagaatt tggtaagggtt aattaagaaa 360
catggccaaa aacctagaag ttagcatgaa agttagacc aaattctcta tgcttatcaa 420
aattcaccaa aagggggcca ctattgt 447

<210> 15929
<211> 441
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 15929

agcttattga cttccaaata taagtcttta aactgcacat tgagctactc ttctaccaag 60
aaagctttta tacataaaca tttggctgaa atattcccaa ccaataaaaa catgaagttt 120
cacttggtgt gtcaaaactt gaacaatagc acaatcaaata aaaaacatga aattttactt 180
gttttgtaa aactaccaa taaggaagat aaatcttctc ctcggtgaga taaactaaat 240
tagttgcgta atcaactgca actgcttaat cgtgatacgt cttggttggtg agataaacct 300
aattgagtat gctaacaggg tgtgaatata aaagaaggag aaacatgagg gataatgcat 360
accgtaggca ccaattntct ccaggcagca acatgttggtg ggaatgcaaa aaatcaaaat 420
gaatgagata ggctaattgga g 441

<210> 15930
<211> 433
<212> DNA
<213> Glycine max
<400> 15930

tatcaaakat tagtcataaa gtgataagga ggtgatttct tcaaatagat cattagcaga 60
aaagaataat aattgttcac acttcacagg aaacaaaagc tatgaaaagg actgaaaatt 120
taaacagcag aatgagtttg tacctgtaca aacttggtgaa agccagaccc aagaggggat 180
ccaatgtaca gagccattga agtccattt agcaaggatg cgtatactag ccatggcccc 240
atcatccgtc caagattagt gggccagcac actacatcac ctttacgaac gtccatgtgg 300
caccatgcat ctgcagcagc ttttagagag taatattggt ccatggaatt gcctttggat 360
cacctatacc accaaatgag gtacattata ttagcttttg gctagcttca tatggtgagt 420

gaagtcttgg tat

433

<210> 15931
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15931

tgcttggttaa catatgccaa catgtattat atgtcactat agcctacacc taaattatgg 60
aaaatagttt aattcattta atattatata aaaaatntaa agcaatcatt aataattaa 120
ataaatntaa gaataaaaaa ataataattc agaataaaaa attaaaataa atttctttat 180
tataatcata aatatctatt taactacca ttaaaattta aaacaatcat aagtaattaa 240
aataaatttc attaataaag tcatgacctt aatatattat aaatatctat ctaattaaac 300
atataaaaac atcaatatat taatattata aaataatgac aagagaaaaa acttcataag 360
agagaatgca ctcttcatat atntcacaac acacataatg taaatgtagc attctctaca 420
tattctcggt actaattag 439

<210> 15932
<211> 429
<212> DNA
<213> Glycine max

<400> 15932

tccaacattt actcgacacg tatcaaatac agatttttaa aagtctttta tctgattaac 60
ctcaatgaac gtgcaggcat ttcacgttgg catgcgtgaa atgctgcaca aacatatgag 120
attaaggctt gggatctcaa atttctatgt taataataat tatgtcaaca aggcagctat 180
atggagggtta cgtgacgaga ggatgagcaa agacacttga gatgataagt tgtgccttct 240
atgtcaattg tcaactcctt tttaattcta ttgaataata aaaagaaaag tctaaaatga 300
taattactta taataaataa tgtctacgaa cattacaagc tgagattacc tctcaaaaat 360
aagacatggt aaaattccac gcacacctta atggcaatat atacttttat gttgtttgat 420
tgctatata 429

<210> 15933

<211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15933

agtcttgccg cccagctcgc ccaggcgagc aaggttgctt cctccaggag caacagcctt 60
 ctggaggaat cttctggagg gcccaagtgg gcctgggtgc tatttgcac cccctttnta 120
 ctaaatgcac ccccttttct attttttttg taattctttt tccgtaacgt tacgaaactt 180
 tacgaatttc gtaacgatac ttatttttct tccgtaaggt tacgaatcct tacggattat 240
 gtatttactc tttnttagct ntcgaagaag ttacagaaac tcacggattg cgcanaaaca 300
 ccttttttcg atttccgcca cattacgaaa tntcacggat cgcgcaagcc tgcttccttt 360
 tgattttctga gacgtctcga gacctcattt attgcatgtc atctagtaat aat 413

<210> 15934
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 15934

tctactgcaa taagagttag ttgggtcttg ctatttagta gaaaagggtg ctagagagta 60
 tatgccacga ttttaattatg acatacaata gatatttgag tttttctctt aaaacttgtc 120
 acattgtcac aatgcatatt agtactaaca ttatttccag ctacttgtga aatatctcta 180
 gtggtaagaa agacagacct tactatgtat ccatgcctct cacgtataac tcatgatatt 240
 atatagatat ttttttgaag gtcagggtt aaaagcctga acactatctc aattgtgggt 300
 tttatctctc tcatattgta gttaggcctg gatagccacc acatacgtca aggggaggca 360
 ccaccacttc aaggcgacca atagtattct tggcagcatt gtctgggtatc tcccgacttt 420
 atca 424

<210> 15935
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15935

tgcttgtaat cgattacaca catactgtaa tgcattacca gaggagattt tcagaanata 60
 ttcttaacag tcacatcttt tcatttggtt cttaaattggc tatcaaaggc ctatatatat 120
 gtgacttgag acatgaattt gctaagagtt ttcagaacaa aaagatctta tcttcttaaa 180
 aagaaaaatc gttttatcct cttacaaatt ccttggccaa aacacttggtg attcaataag 240
 aaattatttg agtgcttaaa ttgttcaatc tatctctttc aagagagatt tcttcttctc 300
 ttcttcttta ttctgaaaaa ggattaagag accgaggggc tcttggttga aagaaatctg 360
 aacacaaagg aagggttggtc cttgtgtgtt tcagatcttg taataggaat ttacaagata 420
 gtggaactct c 431

<210> 15936
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15936

tgatcaaaac aattatctaa tcattccaat ccactcttat catacagttg ctcatcctaaa 60
 tcattcgcag acactcgttg catacaaaac aaaccactgc atatcaaatt caactaattc 120
 actgttcaaa caagctttct gtacaatcaa tcaactcaaa gtactaaaat ttaaataact 180
 aaaatttaaa gaactgaaac ataaacattg aaatttaaat gactgaacat aaatcataaa 240
 ataactgaaa taaactaaat tggtcaaaat gcacaaattt aaatgtcttg ctctgtgca 300
 tgctcattga gatccaacac ctgagcagct agtgaatcct gagggatagg ctgctntagc 360
 tcagatgctg gtgcagatgg catggaatca tcangtatgg gtgctggaga tggctctgga 420
 atctggtctg tgg 433

<210> 15937
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15937

tattttgtag cnttcaggac ttcaaaaaag ccaaagattt ccccatccta gttctaaatt 60
 tcaaatgcta tgaaagctta atttaaaata tgtgtgcacc ttggatcaca atgtgtgcaa 120

tttctaaaat ggggttcaat ttaatataac aaatagcgat gtacataatg tttgtacaca 180
 tttatatatg tgtggcataa tgaattttac tcgtacagct tcaggataac atggcaaggt 240
 tcaggctcat aanagttata gcaccaaact tgtcggtatg ccttatacaa acataaggtg 300
 aacccgaaat aaacccaaaa agcattccct atgtcttgct tattcagctt gtttagttca 360
 tttggatatt ggcaaccttt tcaattaagg aattctatag tgaacaggac atatctg 417

<210> 15938
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15938

tgctgtgact tcaactat tttt gtttttaaatt attatattgt aatttttaaaa gaataatagct 60
 tattatatgt tataatatta taaatgttaa ctcttttaaat aaattataag tgttaaagtt 120
 aatattat ttt tagggtttta gaaatttaaaa taagttatta gataataata ttttagagtt 180
 tagtctttta ataagttata agatttaagt tattattatt ttagggttta gtcttttaaat 240
 aagttttaag ttacatttgt attttttgac agatggctag cgaagaatcc ataataagag 300
 ataatgttaa cgatttcagt gacgatgagc tacaatatga tgttcacaaa catgtagaac 360
 caaggaatca aagtgagttg tcttcatatt ttgaaactat tagtagccaa cnttcagaaa 420
 tcaagagtac t 431

<210> 15939
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 15939

agcttttaggc taatataaac gacaataact atctactcgg atgtctgatc gagtcccgt 60
 atatatcaag acgctcgaca ttgaatgttg aacctatgag cccattcaca cgacattaac 120
 tatttaatct gatgtgtgat tgaatcccg tatatatcga gacgctcgaa attgaatgtg 180
 gaagctttac gcaaattcaa actacaatga ctttttactc agatgtttta tgcactccag 240
 taatatatcg agacgctcga aattgaatgt tgaacctatg agccaattca tacgacaata 300
 actgtttact cggatgtctg attgagtcctc ataatatatc gagacgctcg atattgaatg 360

ttgaacctct gatccaattc atacgacaat aactttctac tcggatgtcc gattcagtgg 420
tgtaatatat cgggac 436

<210> 15940
<211> 763
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15940

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ccacacncac cncncccccc agagcgagcg canattgaga ccatcgcaan acccgnggcn 120
cnanacaaaa aacgccgacg tgacacgana cgcgaggana cctctgcata cagacggcga 180
atatatatat ctacatcacg cccactcac tcacgacgat gaagtgagaa ctatacgaca 240
cgaacaccat ctacactca gacacgagga ctccaatacc acgtagacag aacatggacg 300
tctaacnaga cacacagccg aatgncacga gccagtcaag atcacgggcg ccacaccata 360
cggcgatata ggcacggaca cacacgagag agggcgcaca cagcacacac tactcgctc 420
acgcgtacat ctgcagacca ccgccgang acgaagtaat atgaaccagc acacgaacga 480
accgccgcac acgcactcac cagcatgcag cgtaacgcga gacatccgca caccacgnag 540
cacaagatac cgcaccacgc accactacgt cgctcacca caacggagcc acaaccaaga 600
cagactgcgg tgagaagcac agcacgcaat cgcattcaga cngcacgcga caacgcgcaa 660
gcgtcagcca cgtcgggatg accgcacaca acaccacaan gaccatacac cgcganagag 720
cgacaccgac acgcatacan gacaacacga ccgctcacga ccg 763

<210> 15941
<211> 379
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15941

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ataaactacc acggttgggt gcttgggtctt aattaagaaa gtctacaggt gtatgtatta 120
aagtagccta gggtgggggtg aaccaatata attccttagt gtgttggttc cttccttagt 180

gcttcttggt tctccttggt attataaact taaagtttgt ttttgaaaag ccttgttttg 240
 aaaagtataa ctgatatttg atcaaaaagg tttcataaaa tagttttatt attcaaaaagc 300
 aacacatact ctaagtaagg aaagtcanaa ctaagatcaa aagaatttca taaactagtt 360
 ttgttattca aatggaaat 379

<210> 15942
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 15942

tcactactcc tatgtattct tctcaaactt tactcattct ctgcacacct tcttcattgt 60
 cataactcat tcttctgatt tgatcaccaa gtttaaacat cttcgccatg agccttgctg 120
 tgtttgaaga tgggtggagga gcactctccac ttgtagaagc catacctaca aggatagtta 180
 gtgcacaagt aataaaaaaa taggaacctca ccaactcaacc tagtgtttca ctcaagttca 240
 ctcgtgtatc actttttcaa ggatttttct tttataatat gcactcttgc cttttaccac 300
 tcttgctcct cttcagttct taagcaaaat cttcaagctt aaaatcaaga agtattcaat 360
 gtgaaatatg tcataaatca aaactcaact caagaagcca agaatagaaa tactctaaga 420
 caaaac 426

<210> 15943
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15943

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 cggttttctaa tgactcctct gcgggttcca cataaggcat agaggatggg cagctcacca 120
 agatgtcttc ctgcctgat acgatgacca gatgcccttc cactacgaat ttcaactttt 180
 ggtggagtgt tgaggaaca actcctactg agtggatcca cgggcgcccc aacagacagc 240
 tgtagggggg gttaatatcc attatttggg aggttaacttg acaggtgtga gggcctatct 300
 gtactgngag atcgatctct cccctaacct ctcggcgggt gccgtcgaag gcacgaacca 360

ccattgaact tggtttaagt ggaggcattg aaccatatca tgacactttg gtacatatgg 420
ccata 425

<210> 15944
<211> 434
<212> DNA
<213> Glycine max

<400> 15944

cttgagccaa aatcctgact caccataaac ctttgcccat ggtgagaatg tcaatcctta 60
ccctcggaag caaaaaagaa tagaaggga atttccaatc aaagaaaaga aaaggaaaat 120
ttccaatgaa agagaaaaaa gaaaagaaag gaaattccca atcaaagagt gggagaaaca 180
aaaaagaaaa gaaagaaaat tcccaaccaa agaatgggag aaagtaaaaa aggaaggaag 240
ctcctggtca aagaaaccag aagaaatgtg cagagagggtc tttggaccag acaatatctg 300
aacagtacag aattgtcacc acatgaacaa aaaggaagga aaggaaacca cgacctaaaa 360
tgggtcttctc cctttaatta ccaacaaaaa tcccgtgcgc tatgcgacct tttttctcgc 420
cccgcactaa acaa 434

<210> 15945
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15945

agcttgcttt tggagagggtt ccatcaaccg ccctaattcc ttgatgctgg tggatatctag 60
gcctttaacc ttgacttgggt aaaacctctt gccggtttga ttagtcccca tgcttactaa 120
agtgaacaaa aaagctgggtg caaatcaaaa ctccgatatc tcatgggtgg gatggatgaa 180
tgcatgaagg aatgcatatg acacagctgt attttaagaa tgcgggtgcc cgggacattg 240
tctccttttt agacacaacg tctaggggta gcaaagtgcc ccaatgtatg tatttaaaac 300
ggtgaccggg accctacatt gattntgtct atagagggga tcaagacaga acccctatgc 360
aatgcatatg caaaaggcgc aatagcatga naatattcac tgaacataag caagagggta 420
tatgatattt atgcatg 437

<210> 15946
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15946

tgcctcgaag aggtccagga aggacaaggc agccgaatga tactagttcc gctccggagt 60
 atgatagtca ccgcttttagg agtgctgtac accagcagcg cttcgaggcc atcaagggat 120
 ggtcgtttct ccgggagcga cgcgtccagc tcagggacga cgagtatact gatttccagg 180
 aggaaatagg gcgcccggcg tgggcatcac tggttactcc catggccaag tttgatccag 240
 aaatagtcct tgagttttat gccaatgctt ggccaacaga ggagggcggtg cgtgacatga 300
 gatcctgngt aaggggtcag tggatcccgt ttgatgccga cgctatcggc caactcctan 360
 gatatccggtt ggtgttgga gagggccagg aatgtgagta tggccagagg aggaaccggt 420
 ctgac 425

<210> 15947
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15947

agcttctggg aaaaatccac gagttntcag tatcaaaact cctagtgttt cattggaatt 60
 aggagtaacc tacagtaata acaaattatc tcatgaatat atcattccaa ggctcattat 120
 ttctcacgaa acttattcac cattagaaac aaagaggatt tacctttctc caactatgac 180
 caagaaattc attcacagct atagcattct gtccatacat cagtgggtgag gaccagtaac 240
 cccacacaaa ccatttgtgc acatttctctg gctcanagaa cagaattatc atgataaagg 300
 ttcattacac taatcaactn tgaagttaca ttaccatttt cttacctcgc gaaatcacia 360
 atcctcccan aaccagaact ataagtaatg canaacttcc aacagtatnt gcaactataa 420
 catcccttcc gaatg 435

<210> 15948
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 15948

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tttggcaaag gaagaagaag aagaagttca aagagactct ttggttgaaa aagaatatat 60
gaaaaagttg tgtaaaagtt ttgcttttat agactcttca tgtctgggtca agaaaaccat 120
tagaagagtt ataaccttta aaaaaaatag aaaaccattg gaagagttat atcttttgat 180
ttttattcaa aacttgtcac tggtaattga ttaccaaacc catgtaatcg attacacaaa 240
gctttttatg aaaggatatg actcttcaca attgattttg aatttcaacg ttcagatata 300
ctgataattg attaccaata tcttgtaatc gattacacca ttttgaaatc aattggaaca 360
ttgaaaattt agttgaaagc tttntgaaat caaactntgt cactggtaat cgattacagg 420
aaactggtaa tcgattac 438

```

<210> 15949
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15949

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agcttgtagc gtgatcttat cgtgataaac tnttttgctt tggatttcta agttgaaaac 60
tgtatcaaga taaacctttn tgaattttgc caagtttctg acataattgg gggacagggt 120
taattgagct aggacttggt aatggcaatt gatttataaa aaatgttctt atttctcatt 180
gcttgggaat gagaaataat gtatataaaa ctgttagtgt tcaaggagac aatgagacat 240
ttaatgctac tagaatagaa agtagaatca actgacattt tctanagggt atctggtaat 300
tgaggagaat ttcattgatg ttcangaagg atggagcctt gcagaaagtt tntgtgtccg 360
atgcattgta gctgctcctt atgttggtcc atacaggtag ttaagaagtt catccnctac 420
atgtatgata tccccattat 440

```

<210> 15950
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15950

ngcaaggtga actatggggc tggacatgct tctatgttgt cttggctgca gttgcagttg 60
 gatcttcata ctatcatctc aagccagacg atgctcgctt tgtgtgggat cgcttgcccg 120
 tgagttcaag ctaacttcaa ttttattata aggcaaagtc taaccaatgc ccttccaatg 180
 cccaagacc attgggttaag aaaataaaaag gagaaagatt tttattgggtt tacataaaat 240
 tacgctgttc atgatttttt tttattttat gttctcctct gattttcata ttaaataactt 300
 tatectttta gcaagaccct tgtacaaatc gtttcccttt tccccctttt tttcagcctc 360
 attttagttt ccaaaactga ttattcgctg cagatgaccg tcgctttttac atcaatcatg 420
 gcaatattca tcatt 435

<210> 15951
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15951

agcttggttg cacatctacg tctttaaatt tctgcagtc gacatttaga aagactattt 60
 gttcagagac agaanaagtc ttttcctcca agcttataaa aataataacc caattnttcc 120
 agaagcagga aaaataggat aaaatttgat agttgtttat taaattacag gtgcaatatt 180
 ctattaagaa gtgatgaaaa taagaagcaa gataattggt tcttgcaatt tttgaatcaa 240
 gcaaagggtg ttatatgagt gtctttcttg ttaactatgg gctatggcaa aggaaaagac 300
 atgtaattgt aaatgggtcaa aggcttcact ttatataatc ttgccaaaat atggaaatga 360
 cattntgtat acagagcata tatagtgtct tgggtatatn nttggaagnt attanaaaaa 420
 gtcattgtta ttgctaaatg ttt 443

<210> 15952
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15952

tattnttctc tccttagtat tttggcaaaa atgagctcta tataagttaa taagctttac 60
 aaatttcaaa agcctgataa taggcttgcc acacaaataa gaaaagggtga ccattaacaa 120

aaaggatatac aaatcttctc tcagtaatat ttgcagcat ttggtggaaa aataatacag 180
ccaggagcta acccagtaat aactaataat atcaatatgt aatgatgtgt atatgtttgc 240
agatgaattc taaaagcaga cgtcatcatt ttcttataga aaagtaagta gaaagtgaga 300
tggaaaaaaa aaggtcagat ggtctcagga gaagagatga ttgtttgat gtattatgaa 360
ctaaggaaag ggattttcca caggcatata cacaaactac agaagcacat gtccagaggt 420
cagctaacga tccacat 437

<210> 15953
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15953

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aacataaaaa gggaaaaggt aatattgtag tcaatgatct ttctcggcgt catgcattac 120
tttctatgct tgaaacaaaa ttgattggtc ttgaatgttt gaaaagaatg tatgaaaatg 180
atgaatcttt tggagaaatt tttaaaaatt gtgaaaattt ttcagaaaat ggtttcttta 240
gacatgaagg ctttcttttc aaagaaaaca aattgtgtgt gcctaaatgt tctactagaa 300
atttgcttgt ntgtgaagca catgaaggag gtttaatggg gcatnttggg gtccaaaaga 360
ctctagaaac attacaagaa cattnntatt ggctcatat 400

<210> 15954
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15954

tgtgggattg tgtgatagtg attntgccgg agatgtttat gatagaaaaa gtactaccgg 60
atttgatattt ttgtgggtg attgtgtttt tacatggagt tctaagaaga aaggcattgt 120
gacactttct acttgtgaag ccgagtatgt agctgcaact tcttgccat gtcatgccat 180
ttggctaaga agattgttgg aggaacttca gttgttgcaa aaggaaagca caaagatcta 240
tgttgataat agatctgcac aagagcttgc caagaatccg gtgttccatg aacgaagtaa 300

gcatatagat acaaggtatc atttcattag agagtgcatt accaagaaag aagtagaatt 360
gactcatgtg aaaactcaag atcaagttgc ggatattttc accaagcctc tcaaatttga 420
agagtttcga a 431

<210> 15955
<211> 432
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 15955

tgcttttata tttagtacc tgaaaaatgg gagcctagaa cagtggctgc atccaaggac 60
attaactcct ganaagccag gaacattgaa ccttgaccaa agattaaata tcatgattga 120
tgttgcttct gcaatacatt atcttcatca tgaatgtaag gagtcgatta ttcattgtga 180
tttaaagccg agtaatgtac ttcttgatga tgatatgact gctcacgtga gtgattttgg 240
cttaacaaga cttctttcaa ctattaatgg tgccacttct aagcaaacaa gtacaattgg 300
aataaagggg actgttggct acattcctcc aggtatgttc taaactccca aaaaattgtt 360
tctttgattt cttccctttt gatgaaaaac tgatatnnta ctaactacaa gtatggggca 420
atnnttctat at 432

<210> 15956
<211> 434
<212> DNA
<213> Glycine max
<400> 15956

tcacacaatt tatttttttt tatcaaactt gagttttgga aaaccaatta ctaagacttt 60
cctaactaga tgatttaaatt gatgcatgtt aatatgtgca gccctatgat gccacaatca 120
tgaatcatct atcttactca ccaagcaact tagctcatga aaagatacat gttcaacatt 180
caacatatag atattaccta ttctcttact gatctggaca actttaccgg atatggcttc 240
acttataaga catcaatttc tattgaactc tattttgaac cctttatcac aaagttgact 300
aatgcttaga aggttatgct ttagtccatc cacatataac acattcttaa tctgagtttt 360
atgttgattc cctatatcat gagaatcatt atttttcctt tgttgttgtc tccaaacatg 420
accatagttt ggac 434

<210> 15957
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15957

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 ttgatatggg catacatcca tcanatatct ctaattaaaa tgaaattatg cggttcatta 120
 cagataataa aatatttact ttttatatga gaaaatcaaa tgctgatatt atgaatacat 180
 atataataaa ctagagtaac acccgtgcta tgtagaagta ggggaagaaa aaagtttcaa 240
 atagttgctc catactttta attaaagaga gtgtagagta ataaaaaaaa aattgggtgtg 300
 taggccaata cgatttttat ttttttacag atatcaacca taaataaatg tatgtaatta 360
 attaagctag caacatttgt ctgggtcana gtagtctga acattaaatt cttctacaat 420
 tattgttgga catttattct tatg 444

<210> 15958
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 15958

tgcaatgtaa tctgtcacc gcttatacat tgtatttgtg gatgctatct gcagaagttc 60
 acagatgaac acatttattt tctaacataa ttcacgaaag attgaaaaaa tatgatgaga 120
 agtggaaaga atcaaagaaa ttcattgaat cggaattgta gtgcttattt caccttctga 180
 tttgcacttt gcatctctcg ttgtgctctt ccaaggctct ctgacagagt actatgtgac 240
 ctctcaatgt caagcctagc ttctctctct ttaacaagag actccactgc agccttgtat 300
 ttacaaagat gataaatagc ttagagttca tcatatgaca tttcctttca ccattcttgt 360
 tctcttccaa ttgactaaaa attctttctt accgactgtt ccatttcttc cttgatcaag 420
 ttttctt 427

<210> 15959
 <211> 346
 <212> DNA

<213> Glycine max

<400> 15959

ttgcttatat ctacttaaac caatatgagg ttgggctctt atactaaagc cacttagaac 60
ctttgggttg tacctacgag agtccttaga tatcaatcac tgtgggcagc tcttgccctc 120
atggcacctt cattggatgc acccaaggat gccacacgag cctcctgatg atcgtgttga 180
tgctaaccac atcaactaac ttagccatca cactcaccag atctgcataa cacattgaca 240
catattctat tggacttctc cacagaatgg agattatgat gggccatatg ccccatgta 300
ctactgttgg ggctataagc agattatcta agcatataga ttctat 346

<210> 15960

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15960

tgagctcctt caactgctca aagctcttaa tattttatta gtatccttgn ggaaccttca 60
cccgacgaat agactgacaa aagcttattt tctccttttt ggacaaagta tggcacgctg 120
ggggcaaata aattctcttc ccatcagacc ttggatgcaa ctgtgatcgt atgccccatat 180
aagctagatg ttgacgggta ttcaagccat ccttcattct gccttgaatg ttaaggagcg 240
taccaatcac actgtctcaa acatttttct ccacatgcat aacatcaata caatgtctaa 300
cgtcacgatc agaccagcac ggaagatcaa agaaaataga cctcttcttc catatgcaac 360
tcttactttt atccttcttt tgggacttcc cagatatagg atgtaagtgt ggaacccgct 420
catatacctg c 431

<210> 15961

<211> 441

<212> DNA

<213> Glycine max

<400> 15961

tgcttctctt ggaccttgaa caagcaatca actcctcttt cagaaccctg ctatgtgctc 60
gcgactggtc cctttcttcc cttegcaact tgagttcatt attgctaccc catagagctc 120
cgcgaaattt gttccggcca tactcttcct tgcgagccct cttggtctct tgttcaaggg 180

ctcttgcggt aattgcattc tcttcccgta acccggcaca ctcttccga acgtgtgtag 240
cagccaactt gaatttctcc ttggcgagtt ttgcctttcc taactcgctt ttgagagctt 300
ggacttcttc gtctcttcc ggtgcttcaa aattctcttc gctgacgact ttttaacttg 360
cgagccaatc taaacctcgt atgcgaactg tcagccattc gtggtacca ccaatgatgc 420
cattacgaat gcctctaagc t 441

<210> 15962
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15962

tgtgcaaadc agatcactcc tacattttat ctctttttgc attgtatggt agtctcgtcc 60
tttgtcacgg gaagccggaa tgtccatadc accttcttaa ttgtacacat ggggcactgc 120
gcccccaaat gcgcgagtaa gaagagataa ttttccgggc tctcgtgtcc gtaaaatgca 180
ttcatatcat gcacgcata agcatctctt cataacatca taatggacat atcctgcatt 240
tgtccgttat catattccag cctcaccttt tgcacgagtc atggcatcat catgcatatg 300
cgtccaacaa actttttgat ctgcaaaatt gcataccatc ntgtttcatg tttgtctatc 360
cttgcgtttt cctctacaaa acaaaaacaa agaaggggga agcgtgaaac ttcacactac 420
attcttagtt t 431

<210> 15963
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15963

tatttgcatt ntaagacaaa tccccccac ccggaaggct gattctcaat ccagcagtc 60
cttaccacct tgtggtaatg cttgttatta agccatccat canagacctt ataaggctta 120
ggacccaat caatgctctt agatttcatg aggatagggc agtgatcaga gtagttcctt 180
tcaaggttgt gctgcgaact gtctggccac ttagaaagcc aaccatcaga gacaacagct 240
ctatccaatt tgcttttaca ggaaccatta ngcctaacc atgtgaactg cttaccaca 300

ctangaatat cttccacctc catgatagca agccaatcat tgaaatctga catgatgctg 360
gactctgaat tccatgatng cttccatctc tctgaagggtg cctaatacat aaaat 415

<210> 15964
<211> 432
<212> DNA
<213> Glycine max

<400> 15964

tgagcaaaac caaagggtacc gtctcttttt catatttggt ttggcatcaa ccaaagataa 60
atgattggta tctagtcgtc ttcattattgg tcctttatca tatgatctgt ccttttcttt 120
aaagtagcct atattgaagt gatgctatga ttatgggtccg ttagttgtaa gatgaagact 180
tgcataaga aaagcggttt aagataaaga ttttctgttt tagttgtacg tagagaaaca 240
aaagttacaa tattacttaa atgagaggaa agaattatgc ttcacttcag caagaagact 300
cagtgtatgt ttgacttaat attagtaaac ttaattatga ataaaatcga ttttgtaaaa 360
ttaatttaga ttaaaagtga aatcatcttt attatggatc actgggttag gtgggttcatt 420
taggatcact tt 432

<210> 15965
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15965

agctttaga tccccttgca ggactttntc ttgttccata ttgacaaaa caatacattn 60
tgaanaatat taaacaaacc tgtgtctacac atagatgaca tgtgttggat acctacaaat 120
tatattatgt attgaaacaa aggtcatttt tatactctga atccttaata taacctctta 180
tacccttttc tttaaaattt acttagcgag tatttttttt ccagtgatca agatgattat 240
gaggttgtag aaaaagtggg cagggggaaa tatagtgaag tttttgaaag cataaatatc 300
aatagaaatg agcgctgtat aatcaagatt ctgaaacctg tcaagaaaaa aaaggtagtc 360
ctttctttgc ttgtnttatc ctagtttact cntacctgcg actgtgaata agccagcaat 420
gatgc 425

<210> 15966
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 15966

tgcagaaata tgtgatcctc ttggacatct gtgggtttca tgggtggagca gacaatgtga 60
 aattctttca aatgtttgtg cgagtcttca cctgcaagac catgaaactt tggaagcaaa 120
 tgaatcagtc cagttttaag aacatatggg acatcctcat cagggtattg gatgcacaag 180
 ttttcgtagg tgaaatcagg tgcagccatt tcccttagag tctctcacg ggggtggaggt 240
 tgtgccatgt tctcagaatg tgcaaaatca gaatgctcag aatcagaatg ctcaaaatta 300
 tagtgctcaa gatcaggatg ttcaaaatca ccaataacag aatgcacaga ttcaccagta 360
 atggaatgct cagaatgatc aaaaggtata aaatgatgcc taactaatct atgaaatgtc 420
 ctatcta 427

<210> 15967
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15967

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 aatgcgaaga gtagagatcc tagggctgca aactcgtaaa ttccgtgggt atgggctttg 120
 aatgggggga aaagaagttt ttgaatgcaa aaacgtcccc ctttcgtcat ttttttatat 180
 tttggtgcag gggttgctcg cccaggcgag ctaacctgca cttttttttt taggggaaac 240
 ataaccatgg cccccctctc ttacaggtt aacgttcgcc tactcgaact tacttaagtt 300
 agaattaggc atcgttttac ttatttaaaa caaaaaatag tagttatcat tgtgaattca 360
 aggatactgt gctgtcttga gtgacttctc tgttg 395

<210> 15968
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 15968

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gatgtatggg atttagctcc taaaccaacc tctcacaagt caatcggaac caaatgggtg 120
tttcgaaaca aacttgatga atctgacatc acagtaaaga ataaagcaag attggttgca 180
aaaggataca accaagaaga aggaatcggc tatgatgaaa cctatgctct agctgcaatg 240
ttagaagcta taagattact actttcattt gcttgtatta tgaatttcag acttttttag 300
atggatgtaa aaaatgtctt cctcaataga tgcattgaag aagaagtgtg tgtagatcaa 360
ccacttggat ttgtgcatta tgaacatcct aaccatgtct acaaacagac aaaaggctct 420
atatggtttg aagcaagcan 440

<210> 15969

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15969

agctattata aagggaaga aaataatcaa tgtataaatg aaccaaaca gtcaaactca 60
agcttcatac ttttaacaag ccaagtacaa gttttaaatn tacttcattn taaataaatg 120
acaaaaactt agcatcttct acttttgcaa accaagcatc aactttaatt tcttggcttg 180
acttgatact ttgacaatgc ccttaacaat atacattact ccaatttgat tgaacttaag 240
tgttaatat acatgtaata taatttcact tgcacacacc gaanaaaact cattgaccaa 300
atggcagcac ctgatattac ttctagaata taaggtttat ntgcaaagtt accatttcaa 360
tgcattttat cctanagact gctttcaaca tcacacacac acacacacac ancaattaat 420
caaaacaatt tacctt 436

<210> 15970

<211> 435

<212> DNA

<213> Glycine max

<400> 15970

tgcacttctt cgctttcctt agggacttca gcctctttct acttgaaatc tttagttcgg 60
gagccaagtt atcccttgca tccgagcctt caaccattta tgatatccac caataacacc 120

gttgatgctt cctctaagct ccttatcctt tctttgcacc acattccatg cttttcggac 180
 tcgtcgaagc atttttgcat tggggtcatt gaagccacgt gctatgaaag gcatgatact 240
 ctcttccgat ggtgcccctc tcatatgata gcctagttgt cttatggcaa gtttgggatt 300
 ataattaata caacccctcg ttcccatcaa ggggacattt atgaaccctt cacatgagga 360
 caatactccg acccttcctt ccttccatag ggggaaccaa ttaacgaacg ccctaccat 420
 accaccaag agttg 435

<210> 15971
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15971

agcttttatt atcaaagtaa ttggcatact aaaaattacc aacaaattat taatttataa 60
 aattgatagc atagtaccat tatgagacga gctgctntag agcttctgac caccatccac 120
 tgtccttcag aatagaaaag ccattcacgt gcacgactct gagatataac attcaatcat 180
 gaaattcaaa cagaattact gcataatttg atgccctagg tgtaaaactgc agatagatat 240
 aaaaaaagga aatcagatat cctgtggaat cagctccata aatgcatatt gatgcacatt 300
 gcaatccaaa aaattaaaaa acaaaattag atgagaaaaa caatatatga agaacttgag 360
 aaatactaga tactctatat ctgtcaagta acaaaccatt atccctacct ctataataaa 420
 caaataatcc gatcctagat g 441

<210> 15972
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15972

ngaacatctc ttaattagtt cgtgcaaadc cgtggatcag atatttgtgg cggatgaaaa 60
 ctcgggtcac catcatcatt tcagaatadc tgctccaact gaactggtga gcatttcaaa 120
 ttgctttaat ttgttctttc ttatgttaga cttattagca ttctattgtg aacctcaagc 180
 atattatcaa ctgtgtgata taggttccga ttttcccaa cttggagaca tttgtgattt 240

<210> 15975
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15975

agtctgtatg aactcttagc ttatcggcct acttatatgc aaccatttg agaatagctt 60
 gcatgtttgt gaaaatctta ccacaactat gctcctccag aaagattata atttgacata 120
 ttttatgtca ctgtggttca tgcacaataa ctaactctcc tatagggtgtt catagcgctt 180
 attattttta atatattatc ataatgtaaa atctattgac taaacttata taattattat 240
 gctatattat gtatcattaa aatntgtgta acatatttat gttgaaaatt attaattatg 300
 tacttttatt aggaatgatt aaggaagata atataatcaa ctttttttgt aacataatag 360
 tgcatagtgc ctcaattgat atataacatt atttttaaga atattgcta 409

<210> 15976
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 15976

ctaagcttgc catagaatat gtataccttt cggaccaact attgggccag tagccatcat 60
 cattgttggg gctagctaag cttagtgatc tacattgcac cgacgataaa ttacttggcc 120
 caatgccaga caaaattagt ggactttaat gtctaattta atggatctgg atttgtctgg 180
 taactccctg cacgaaacag tccccattta tctggatttg tctgggaact cgctgcacga 240
 aacaattccc caatggtgct tttctttgtc atcgttgtta cgcttatctc ttacggaaa 300
 tcagcttaca ggaccaatgg gtgaattctc ttcttttccc ttgtattatt gtgatctctc 360
 ttataacaag ctacaaggta atatcccaac tcagtgtttc atctacacaa tctcactgtg 420
 ttgagactat ca 432

<210> 15977
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15977

attttctcaa ggaggtgagc ttagttatga gaggggtgtg tgtaactaag ctctagcttc 60
 tcaaggaagt tntctcaaag aagcttctca aggaagtttt ctcaagaaag cttctcaagg 120
 aagctaccta gtctataaat agaagcatgt gtaacacttg ttgtaacttt gatgaatgaa 180
 agtcttatga gatacacttc aaagtccac ttctttcctt cttttattcc ttcaatttcc 240
 tgctccccc ttctctcttt cttttcctcc attaaagcat cttcttcaag cttcttatcc 300
 aaggcaattc ttggtggtga agctccttct tccttggett attccctagt ggatggtgcc 360
 ttccctatcc tcttctcctt ttgccttcac tgcac 396

<210> 15978
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 15978
 tcattaagag gcttctcca gaagcttcat tattaggctt cctccacaag cttcattaag 60
 aggcttctag cacactccag acatcttctc aaagattcca atggtcagat catggaaaag 120
 tgtcttgga agttgcagac caaatTTTga gaagatccaa tggTTaatga aggctgggca 180
 gtgtttttac cgaggcagct tcatgtagct ttctctagaa gcttcattaa gaggcttcct 240
 ccagaagctt tctcgtggtt tctttgagaa gctttctcaa gaggcttctt tgagaagcta 300
 gatccttatc tatccacacc cctctattaa ctaaattaac ttccttaaaa ataattatgg 360
 atgaaaataa cgtaacaaat aatcaaacat caaacataat tactaataat atatagatat 420
 atatatc 427

<210> 15979
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15979

ttcttgata gttcccaat ttgtagtcat tttggagtaa attntgtaaa taaatcttgt 60
 ttatggTTaa cactgtctct agaacaattc cattggattt aatgatgaaa tctgtgcatt 120
 ntcaggtgaa aaagaggcta agttttgaat tgcaaaaagt agcagttggg ctaagcgcat 180

cttgaatttg aaattgaatn tgtggagcca aattttggag ccaaaatttc actaattatt 420
gatagtg 427

<210> 15982
<211> 430
<212> DNA
<213> Glycine max

<400> 15982

tgaaggtaaa ctagatgcct tgggttaacct ggttacccaa ttggccatga ataaaaaatc 60
tgcacctatc gccagacttt gtgggtttatg ctctctgcc gaccaccaca cagacctttg 120
cccttatgtt cagcaatctg aagcaattga atagcctgaa gcttatgctg caaacatcta 180
caatagacct cctcaacctc agcagcaaaa tcagccacaa caaaacaatt atgacctctc 240
cagcaacagg tacaatcccg ggtggaggaa tcctctcaac cttagatggc cgagtccttc 300
acaacaacag caacaataac aacaacaaca acaacaacag caacaacaac cccagaaaca 360
gcaaccaatt gagactctc cgcaaccttc ccttgaagaa cttgtgaggc aatgactat 420
gcaaaacatg 430

<210> 15983
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15983

tgtttgaaca aaagaagtgg aatcatgcaa caaatgtga aacaatacta caagatgcct 60
atattacctt tcaattaccc ttntctcaa ttggtgtggt attggccatc actcaaatg 120
actcttcatt catcttccga ttgcgacgat ccaaagtac aagatgtgaa tgcatgcatg 180
cttatgattg gaagttaagt gcaacaatta aacaagtgtt atcatgttca attttactta 240
aacgcttacg acacccatt aattgagcca aatggctccg gattcagtg gcaagatcga 300
gagtgtatgt tcttaagaag taaaagacac aacacaggag gttaagatgc anatcatata 360
tccacattta ttaatgct 378

<210> 15984
<211> 414

6650130112400

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15984

tgaaggtgtg tagccaccat cttttcatag tagagcactg gtaatgtgtc tactatcact 60
gttatcgtca ccctttccgt cattgggggc gccacttggg ctgccagatc cctccacctt 120
tgggcatatt ctttgaagga ttcatgcccc tttttacca tgttctgtag ctgcatccta 180
tccagagcca tatcagaatt gtattgatat tgcctaata cggcaaccat taggtccttc 240
caagaatgga ctccaggaagg ttccgagtta gtataccagg ttacagttgc cccagtaaga 300
ctttcttggga agatatgcat cagtaatttc tcatcttttg cgtatgcccc tatcttccga 360
caagttcttg gggcaagtag tccccttgta cttatcanag tccgacacct tgaa 414

<210> 15985
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15985

ttgtctttgt ggaaacttca tgtgtacttc aatgttttga aaaactttnt agtacttatac 60
ttgattgagt cttttctgta gaagcaagct tcatgatgaa tcaagattga ttcaaggagt 120
tttgatgata acaaagatga tgacaaaaag ctcaaaagtc aagaacactt catgttaaca 180
aagatgatga tttcaagaat caaagaatga gttcaagatt gaatcaagaa cacttcaagg 240
ttcaaaaagga aatttgattt caagaatcaa gaatcaagtt tcaagattca tgttccaaga 300
atcaagatca agattcaaga ctcaagattc aagaatcaag agaagactca ntcaagataa 360
gcattanaaa agttttttcaa aaactgagta gcacatgaaa ttttctcata accttntacc 420
anagaagttt tactct 436

<210> 15986
<211> 430
<212> DNA
<213> Glycine max

<400> 15986

tatgcgcata tttccttaca aacgttctct tgcacaagac attctattaa ccgaaaaaat 60

gcacccatat acaatcaagg cagcttcggt acctagatta tttacacgta cttccaaggt 120
gtatttggtta cttacatcac acacctcctt ggctaaactc acatacatgc atactcaaag 180
cattttgggg taccaaaaat tgcacatgtg cacatcttgg tatttctaata acctatacat 240
acacaaaactt catgatgaat cttaactatc tacacaataa ggtgctacat tttatgctct 300
tttcaagttt ttgtaccta aagccgcatg caaattcaag tatattttcc ttgctgact 360
aaaattgtat tcaaattaag aggtatacat tttttggtaa tgtatcttct ttacataaca 420
tgcaacatat 430

<210> 15987
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 15987

tgcttatagc cttgggcatg aggggggatg atggaaagcc accttaattg tgatcactct 60
ttagccagaa agggctacct acggaggggt tgaccaaagt ggctatttta agtgtcgtag 120
agtgcactac aaccactgga atgcagctct tatgcgattg agatctcaca ttcactagag 180
gtatgactta agctgtgttt ataaggattg ggttggtctc atcttacagg ttgattttgt 240
gggttgagtt agaccataaa cccaaattgt aatacatgag gaggacaatt ggatacggta 300
nggttatact atntacaaca tatggagact gattctagta aaaagggtgt gtcttcttgt 360
cattanggta gcttcccaca ttgggcttca atgtanacgt cttggacatc ntgcctttgg 420
tattcttatg tctt 434

<210> 15988
<211> 421
<212> DNA
<213> Glycine max

<400> 15988

tcttttgagc cttgaacagg caactaactc ctctttcaaa accatgccat gtgctcgcga 60
ctggctcctt tcttcccttc gcaacttgag ttcactattg ctaccccata gagctccgcg 120
aaatttgctt cggccatact ctcccttgcg agccctcttg gtctcttggt caagggtctt 180

tgcggttaatt gcattctctt cccgtaaccc ggcacactcc ttccgaacgt gtgtagcggc 240
 caacttgaac ttctccttgg caagttttgc ctttcctaac tcgcttttga gagcttggac 300
 ttctttgtct tcttcgggtg cttcaaaatt ctcttcgccg acgactttta acttggcgag 360
 ccaatctaaa cctcgtatat gaactttcag ccattcgtgg taccaccaa tgatgccatt 420
 a 421

<210> 15989
 <211> 274
 <212> DNA
 <213> Glycine max

<400> 15989

agcttgtcga tgctgaagaa gatgatgacg gcgacctcat cttacctaaa aggagatagc 60
 tcgtgagcga tattgagaat ctcgatagaa cactatacaa ccctatcatg cccgactatc 120
 tagttcttct accaagctag ctacacggaa tcgctacaca tcacatctta tatatacaca 180
 aactatataa gtcactctct ctataagaaa gaagatacgt actataccta aaccgatgac 240
 acacgtcata ctgtagtcc ttcaaagca ttat 274

<210> 15990
 <211> 454
 <212> DNA
 <213> Glycine max

<400> 15990

ctttgcggtg tgtagaccgg ccaccctcat atgtgctagc gcctatactc tcgtgagtca 60
 atggcacaac actactcttc acgcgcatca tatgtgggac ttgctccgca ctactctat 120
 tatatcctgc catgtgctga tccttgcata acgtaatatg ccgtaccaga ctagctgttc 180
 cacattaata ctatcataga gtcaagatga cgtatcccaa cttgcactgt gcgaagacca 240
 caaatgcgat ctctgactat aatgttgctc actcgcagag tcatccagat ggctgcctc 300
 taccgatccg agtctccgct actacaagag agatcaaccg ttgagaccg accatgtcac 360
 tatctaggca cttgcgttct ctggctagct atttcgataa ataggcgct agtatgcaca 420
 tctgaggggg gctctcaaca cgtacatcat ctat 454

<210> 15991

<211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 15991

agctttgagc agattcaaac gacaataact ttttactcgg atgtctgatt gagtcccaga 60
 atatatcgac acgctctaca ttgaatgctt atgtcttgag caaattcaca cgacaataac 120
 tntttactcg gatgtctgat tgagtcccg taaatatoga gaccctcgaa attgaatggt 180
 gatgtctga gcaaattcaa acgacaataa cttttttacac ggatgtgtga ttgagtcattg 240
 taatatctcg agacgctgga gattgaattc tgaagctctg agcagattcg aacgacaata 300
 actatgtact cggatgtctg attgaatcca atgatataac gacacgctcg aaatagatca 360
 tgatgtctcg agcatattca acgacataac ttgtactggg atgttgaaga gtctgaatat 420
 atc 423

<210> 15992
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 15992

taacaaaagg catgcgaagt ggggtggaatt cctagagcaa ttcccttatg ttatcaaaca 60
 taaaaaggga aaaggtaata ttgtagccga tgctctttct cggcgctcatg cattactttc 120
 tatgcttgaa acaaaattga ttgggtcttga atgtttgaaa agcatgtatg aaaatgatga 180
 aacttttgga gaaattttta aaaattgtga aaaattttca gaaaatgggt tcttttagaca 240
 tgaaggcttt cttttcaaag aaaacaaatt gtgtgtgcct aaatgttcta ctagaaattc 300
 tcttggttgt gaagcacatg aaggagggtt aatggggcat tttgggggtcc aaaagactct 360
 acaaacatta caagaaacat tttattggcc tcatatgaca aaggatgtgc agaaattttg 420
 tgaacattgc attgtatg 438

<210> 15993
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 15993

agcttattac aagaaattag tttgtaagaa ataagtntga ttcagagtaa gtctcatcga 60
ataatatattt gttttaactt gtattagtct attntagaat attaggttag tgatattaaa 120
tgaaacaatt ttactatttt caaacatttg ataatatgt gttaattata ttgtatatgt 180
gaatgaatca tgatataaaa tagtaattct aaggaaaaaa ataaaattta aataagtaat 240
ttattgggcc aaactgaatc aaaccgttca tgaatgggtt ggggtgggtt taaaaaaatt 300
gtgaaaatca aaccgaacca aatcgatgaa atttgattga gttgagtctt gaattttgcc 360
aaaaccagtc caaatcggcc tacaaacacc cctaaaaata gttatcanag aatacaactt 420
attataaaat tgatccttga aca 443

<210> 15994

<211> 341

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15994

ntgcgtaatc gattacaagg atttggtaat cgattactag tgataagttt tgaacaaaaa 60
tcaaaagatg taactcttcc aatgggtttc aggtttttct aaaggttata actcttccaa 120
tggttttctt gaccagactt gaagagtcta tnnnagcaag accttgattt gcatttgaac 180
aacacttaca acctttacaa acaactttgt cacatattat ttacaacct ttgaatctct 240
ttgaacatct tcttgaactt attcttcttg ttgttggatc gagtggcctc aaaataatta 300
ataagggggg gttgaattaa ttactcctaa acttttacta a 341

<210> 15995

<211> 59

<212> DNA

<213> Glycine max

<400> 15995

agccttagat tggactgtac cgatgaatcg ctggctctga cgacaatgaa ctgtatggc 59

<210> 15996

<211> 464

<212> DNA

<213> Glycine max

[illegible]

$\frac{d}{dt} \left(\frac{\partial L}{\partial v^j} \right) - \frac{\partial L}{\partial x^j}$

[illegible][illegible][illegible][illegible][illegible][illegible]

agatgttgcc tttgtgcaat tttttaaagc tcgccccagg catttggtta aacatgagct 120
 tgaagtgtc aaacacaagt ttgggcgcac gactctcgat ggccatgcc aacaaacatt 180
 ctatagattg cagtagtatt gctttggctt ggaacctaaa aagaagccac ctattgggtc 240
 ttatcatcat taaattgagt gttgttatca gactttgaac cacttcactt ctgcttcact 300
 caagaaactc ccttccatga tctattcatg gcaatgggat ttctatgcta cgtctaata 360
 caccttctct tttatgatga tattttcatt ctctcgcttc ttcttcccc atcatgtaga 420
 ccccatcatt g 431

<210> 15999
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 15999
 tagtttggtg accactagct ccctatgac acgcatgatg cttagaggat tagttagtta 60
 gtctaacctc ctcaagggtg gacatgtata tatagacca aagaatacac aataaggtag 120
 gctttcaatc actccatata tagatgcaca aaacaccttg ggcttgactg acttaatcgt 180
 ctgagtcctt tttgcaggca ctttcttcaa cattggagta tgagatcgga gattccatta 240
 atatgaggaa caaaaggaga gaggtagaca gctcatcaga agtcagccac aactcaccag 300
 aactcagtct gaacatttaa ctcagccaca actcaccgga actcagccaa aacatttaac 360
 tcattcacag agcg 374

<210> 16000
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16000

gaccttaaat ctccgcttgc ggtactttta ctttctcaat gtacaaacat tttttcacat 60
 tgaatttatt atacatagta tatattttcca ttcagccttt tatataataa agttggcaat 120
 tgacatatat atttcacttt ttttatgata tggagagtca tgagatgttt tgattattga 180
 ttttattctg ggtacttttg gtatcattcc ttaagactat tgaagtgtgg aaagagctgc 240

atactaattgt ggattaacta tctaaggcct gatatcaaga gaggctatctt ctcaagtga 300
 taagaggaaa ttatcattaa gatgcatgag ttgctgggga acaggtatat attcgtcgat 360
 tcattcttca gattaatggc attaatgatt tgtcttaatt aataatagaa agttcgaaca 420
 gaatattagt actangttat taccatgaa 449

<210> 16001
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 16001
 tatcttatca catatggaga cgcctgaaat tgaaccagag aagatctcga gaaattcaga 60
 tggtcataac ttttctactca gatgtccgat gctggcgcgcat agtatattga gacgctcgaa 120
 attgaacaac ggaagctctc aagaaatgta aatgatcata aatattcact cggatgtccg 180
 attcaggcgc atcatatata gagacgctcg aaattgaaca atggaatctc tcgagaaatt 240
 aaaattgtca taacttttca ctgcgatgta cgattcaggc acatcagata tcgagacgct 300
 cgaaataaac aacggaacct ctcgagaaat tcaaattggc ataacatttc aactgaggt 360
 ccgattgatg cacatcacat atggaga 387

<210> 16002
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 16002
 tcaccggatg atgccgatcg agcatttcct aatcgatttc atccaattgt tattcagggga 60
 ttgaatagaa taaacaatgg ccggtgtcgg tccttatatg gccccgactg atatctttca 120
 gccgacattg cgcaatttct ttacaaaacg ctggccgata atattttttt ttttttacgg 180
 tagaggaagt tttttgtttt ggtgttgctt aaaaaattaa caacgtaggt cggcaagggt 240
 tttccgtgcg acctcaaccg aggggttcgtt ccgaccgaca ctggcatggt gatatctcat 300
 ttatgaggcc aacaaaacgt tggcacaccc cggcataaac aaaaaaaaaa tattctcgaa 360
 tattgatcga aaaacatgat agctgacgtt agcatggaga gatgaccgat cga 413

<210> 16003

<211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16003

agcttgata aatgttcaag ctatacgttg attaattatt aaataaataa ataaagtttt 60
 atgaaatatt aattatgcaa tacatgaatt ataaaataaa gtaacaattt aacttacata 120
 aaagagattc ataagtaaga aattaagtca agttcactac ataatgtacg ttgataatag 180
 atattatata ttagtagacg taaatatgag tcttggatat gaaattatat taatattttt 240
 ttaaaagaga ttgagcactc aataatccta ctcaccttga gtagaattat ctctatgaaa 300
 gatacatgtg atctctanaa caaacagcct tcagaagata tacatcatgc atgagataat 360
 catatattta agcaacatcc ttccaacac aagcttatta aatgggtgct tctcatgtta 420
 tctcatccac taaa 434

<210> 16004
 <211> 218
 <212> DNA
 <213> Glycine max

<400> 16004

cgcggtgctt atagactgca gggcattgta aactcttggtg ttccccgcat ccgggggaaat 60
 cagaggctca gatattcgta ggcaaccgg tgatggatat atatatctct ctatatagag 120
 tgtaattgat agtagtgtat taaatacgaa cgtagatcaa atacatatga ttattatgcc 180
 cgagtgttca tctatatata agaggatggt atgtatca 218

<210> 16005
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 16005

tcttataaga acaaaattgc ctcaatcatt tccaaatatg catgtgaatt atgaagcatc 60
 aacaagaatc aagccaaggc tattgtgcaa gcaatcaatg gggcaaaaaca caccatatga 120
 ttatgatgat ggatggctca aattctcaca aaggtaaact catcactttc aaattgagct 180
 ctcaaaaacta tcatgacatg tagaggagaa tcaaggattt caagtcacaa aatgtcaaga 240

actttttat tcaaaacaat tacccatttc ttgaacatat cctataattc aaagaaaaac 300
 atgcaaagtc gtacatgcac acaaaattga cccaaaatat taaactatag atccgacaaa 360
 actagcaaca ttaacaaatt aacacatcta acatattaac aaaaccaaca taactagcat 420
 aaccaaagaa tactcccc 439

<210> 16006
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16006

ntgccgattt agttntctct gnaaaaagga ttgatgttg tttgagaaga ggcaaatttg 60
 attatcctac tttgatgaat aggaagcctg cggcaaatgg agagaataag aaggagggag 120
 gaacccatgt tattgtgact gtcgttctg catggccaaa tttcccacca gctcaacaat 180
 atcaatactc agccaatatc aacccttctc attaccact accttatcag ccaaggacac 240
 ccaatcatcc ataaagacca ccctaaatt agcgacaaag cccgcctatc gtacatccga 300
 tatcaaacac cacccttaac acaaaccaga acaccaacca gggaaggaat tntccagagn 360
 agaagtctat agaattcacc ccaattccgg tgctgtatgc taacttactc tcatatctac 420
 tcaataatg 429

<210> 16007
 <211> 201
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16007

tagctttctt gtcatacag ttgcatgatt ggagttngtc tctgacgcac cattataatg 60
 agacattttc tatgaaggcg ttcttaattg actgctcact gtgatatttc ctcacactct 120
 tcgcgattat atgcgctcat gaattccttc accgacacct tgtagaccac atccacttat 180
 tctactcaac tgacctcaaa c 201

<210> 16008
 <211> 370

<212> DNA
<213> Glycine max

<400> 16008

ttaatctaga tggcgtgcat gtcgctcccc ctatctttat ccatcatgcc cttgagggct 60
ttgatgatgc cacacatcga tataacattg catgcattga gagggctctga gtcttgacat 120
tagagacttg cttttcttag ccgatctaga taattgttaa cacttaatag cggatcgatc 180
cattgcatca tcatcatcat atgtcttact atatgatcgt actgatgcta atgctatatg 240
acgtagtgca ccactagatc atctcccaa tgcttatata ctacactgca agcaagtatc 300
caatacatat gccgcaggac atatatatct cccttgaatg cacatatgca gctcatctcc 360
cctttttggc 370

<210> 16009
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16009

agcttgcttt tcctttgtct tttggatctt caataccttt ttcacaatct tttgctcttc 60
aaccaagaaa gctcgaatga ttctacagaa ccagagacaa aagtaagcaa ggtactccat 120
caatttgcac aaagaaaatt aacatactg tagattaaga agattgagaa aaacaaacct 180
ctctctaaca gcactgccag acaacacacc accatatgca cggttcacag tccttcggtt 240
nttgggtaac cttgatctct tatattctgt tggccttaaa tgtggaatct gcaattgcc 300
agcattaata accattatgt tataccgtgt atcattcata cataatcctn taccaatcat 360
agaaagaaaa atctagttgt aggaaccttg aacatcataa tcttaactnt taag 414

<210> 16010
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16010

tacacattcg tggagaanaa cagattcaag tttttctgta ttggataagt cagggatctc 60
aataaggttt cgacaaccac aaaggcta atctctttaa ttagcaagat tctgtgacaa 120

gaaagatgca tcacattggt cagaaattgt taaaatcata accatgagcc ttaactgaaa 180
 gagaaaccta agcatgactc ttgcgaatga gcttcacttg aggcagcaca aaaccagtta 240
 ccattgacaa ctctctcatg tacctttaca aattgaaaga aaaattagca tgtatgcaac 300
 attcatacct gaaccccgct ccaaggcttt ttaagcttgc tatcaggcat gtggagctct 360
 acaatntggt cagcacanaa gttagacggc aaagacttga gatagaatct atcccattca 420
 aggtacatca a 431

<210> 16011
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16011

tagcttgtga tttcacttga tcatacaaaa aatccatgga taaaatacta ttactatttt 60
 gaagcttgtg attccacttg atcatacaaa aaatccctaa caagcttgtg atttcacttt 120
 atcatacaaa aaatccatgg atatcccat aggtgtgaat ttttttgcca ttcccattct 180
 tgtgtactta tatagtatta aaaacccatg tgggtcaact taatgatgaa agttttaaat 240
 agtttgtacg aaattgtaga ttcaaactc atgatgatta atatacacac aaaagaaaat 300
 aatattaaaa gttactccct ccgttcatt ataattatcg tgtaaggaga taaaatttat 360
 cctanaataa ttgtcattnt ggctnttcaa tntagcattt aatatttttt cacttatatc 420
 tcttatatag taatgat 437

<210> 16012
 <211> 423
 <212> DNA
 <213> Glycine max
 <400> 16012

tccatcaagt ggtatcagag cacaagagct tcaagtatgt gctccttaaa cctccattaa 60
 ttttttgctt taccttttct tccgttggtg tttcttcatt tttttctcca tgtatctcct 120
 cacatgtctt gtgctaaatg tttttaacat gattcttttag attttccacc aattaaactt 180
 gctatagaag ctagatttga ttttctatgg ttcaaatttc ttgttcttgt tcttgaactt 240

tttttttgtt ttctaagttt cctacatgat gcctatgatg aagttgagtt gtgggtgctga 300
 gttgtggctg gatttgtgaa tcaaaataag tcttaagctc tcttgaattg tgttattcaa 360
 gataattgag cataatcaaa cacaaattgt aactatccaa gctttaagca acataaacac 420
 tac 423

<210> 16013
 <211> 439
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16013

tatgattaac tagactntga acccttgcat tgcacgggtt attttaaatt atatatatat 60
 atatatatat atatatatat atatatatat atatatatat atatatatat atatatatat 120
 ataattntat atatatatat ttataaataa aaaccatagt ttttaaatat ttataactat 180
 gtgaaatata attatattat taatgagaga gtggattaat tatattttta attgagtga 240
 ttttatctta cagagtgagt atattaaata ttttgtgtga ttgtttattc attcaagtaa 300
 taatggtgat gcgatatctc ttgaaagata tatatacata tataaaaatta tccattttta 360
 agatattttg tagtgagaca catatatata tattaatatg gagagataat attaattctt 420
 agtgagcaca tgttctctg 439

<210> 16014
 <211> 434
 <212> DNA
 <213> Glycine max
 <400> 16014

tttgtggaaa ggattgatca ggttgtctct atctttactc ttggttttcg tgtacggttt 60
 tacatagttt tttgtttgtg catgaatggg ctcaaaacaa atcattttca aagaggggtgc 120
 attttttaat cgacctcatt tgtttgaggg tgaacatttt tctttttgga aaaagagaat 180
 gaattttttt taaacaaatt atcccagtc atggaatgcc actattaaag gtcctttcat 240
 tcctataaac aaataaatgg tgaattagta cctaaagaat gggatgagat gaaggatgac 300
 gagaaaataa aagtgcacaa tgatcaaaaa gctaaaaaca tttaaacttc tggtttatct 360
 tcgggtgaat tctttcgtac tgcaaggtgc aaaagtgc aaaggaaattg gaatatgcct 420

gaagtcactc atga

<210> 16015
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16015

agcttataca acttggttga attgattaca atgaggctat aatcgattaa aatagaaagt 60
 tnttgccttt gaagaaaatt ctctaactaa gaaactnttc ttcacacaaa ccatgataat 120
 gcatgatgta atacaaatat caaatgtact aagatgtaac aaccaagata acaaccaata 180
 caaatgccac tcaatggagt tggggatgta aaaacaaaaa cttcttcaag ctttagccct 240
 taggttgctc agaagctagc tagttagtta agttgaacat cctttagatt gctagctggt 300
 tgaaatcaag cttaacgagg tggatataga taaataatac gaggaaaaaa gttctaaata 360
 taaaattcta ttaaactttt aaattataaa agatattaaa agttaatata atacaag 417

<210> 16016
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 16016

tcatgatgaa tcaagattga ttcaaagaag ttatgactat tacaaagggtg atgacaaaaa 60
 gcttcgtgat gatctcaaga atcaaagaat gagttcaaga tgttcaagat tgaatcaaga 120
 acatttcaag gttcaagagg aaaattgatt tcaagaatca agattcaagg ttcaagcttc 180
 caagaatcaa gatcaagatt caagactcaa gattcaagaa tcaagaaaag acttaatcaa 240
 gataaatatg aaaaagtttt ttcaaaaact gagtagcaca tggatttttc tcaaaacctg 300
 tttaccaaag agtttttact ctctggtaat cgattaccag attattgtaa tcgattacca 360
 atagcaaaat ggatttgaaa aatttttcaa ctgaatttca atgttccaat tgatttcaaa 420
 atgttgtaat cgatta 436

<210> 16017
 <211> 156
 <212> DNA

<213> Glycine max

<400> 16017

agcttttatg attatcgaac gacaatcact tctgactccg atgtctgata gcacccccta 60
gtacatcgag acgctctgaa tcgaatgttg aagctctgac catatcttga cgacgataac 120
tctttattcg gatgtgagat ggaatgctgt aatata 156

<210> 16018

<211> 253

<212> DNA

<213> Glycine max

<400> 16018

tcatcattca ctttcgaaag tctcgatata ttacggtact aactcacaca tcccaccta 60
aaggatatcg cgtttgaatt tgctccgact ttcaccattc cattgcgatc gttctgatgt 120
aatacgggac tgaaccatga catcctagta aagcgatgcc gtcgtctgaa tacactccta 180
tcttcacttt taaatactga tcgtctcaac atattacacg gactctgtga gacattcgaa 240
caataagttc ttg 253

<210> 16019

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16019

agcttttatag agcctgtgtc gtcagcaaga agttcaagtt catagccatc tacgtctgat 60
gagagtatga tgatctaang gacgtatata tggccatcga tgactccttg gaatgagaat 120
cctataatgc ccgaagtga gaacactacc ataactagtt gtgaggggct ctatatggca 180
tctatagtga gttcgaacgc cgaataggtg ataggaatca ttacgggtca tacgcatgat 240
ctggaaagac gagctaaagg cttgccttag gtcaaaacga aatttgcccc aacatttaga 300
gtgaaaactga gaggtatatg tgggccttca tcgatgactg caattagtaa ctaatctatc 360
ggcactg 367

<210> 16020

<211> 418

<212> DNA
<213> Glycine max
<400> 16020

tgccgcccag ctgcccagg cgagcaacgt tgcttctctt tgaagcaaca accttctgga 60
gggcccagggt gggcctgggt gctatttaca ccccccttgt ttactaaatg cccccccctt 120
tctatgtgat tgtaattctc ttccgtaacg tatccaaact ttacgaatgt tgtaacgata 180
cctattttcc ttacgaccgg ttacgaatcc ttaccgatta tgtattgact cttttttaac 240
tttcgaagaa tatacagaaa ctactgatt gcgcaaaaac acctcttttc gatttccgcc 300
acattactga atttcacgaa tcacgcaagc ctgctacctt tcgatttctg agacgtctcg 360
ggactccata tattgcacgt catcagagga taatcctcgg actaaattat ggtatgac 418

<210> 16021
<211> 94
<212> DNA
<213> Glycine max

<400> 16021
agcttgtctt aatcttgtcc accaccagat cttgagctgc agaacggact accattaata 60
acatacgtac ctactgacga gagggtaata gaac 94

<210> 16022
<211> 431
<212> DNA
<213> Glycine max

<400> 16022
tatagaatac tgccgctata ttgatgcgcc gtgaatggac atacgagtga aaagttttta 60
ccatgtgaat ttctcgagag cttcctatgt ttaattttga gcgtgtcgat atattatacg 120
cctgaatcga accttagtgt agaaagttat gaccatttga atgtcttttag agcatccggt 180
gttcattttt gagcgtctct atatgtgatg aggctgaatc ggacctccgt gtgaaaagtt 240
atgacctttt gaatttctcg agagcttccg ttgttcaatt atgagcgtct cgatatatta 300
tgcgctcgaa tcggacatgc atgggaaaac ctaggactat tcgaatctct cgagagcttc 360
cgggtgtgcaa ttgcgagcgt ctgcatatat tatgcgcggg aatcgcacat acaggggaaa 420
cgttatgacc a 431

<210> 16023
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 16023

ttctaattgtg tcataagaga aatgtggacg agagagctgt gaggtctata cgcgagatga 60
 ctgtgaatgt tacaaaaaat aggggaatttg aggagggatg tatgaatgat ggatagcgaa 120
 tgctgagaaa acgaacataa tacatgaatg actggccaaa agttcacgac aagacaaata 180
 gcgataaata ggtagttata aaaggaggaa ggaaatttcg aaaatccata aatgaaagat 240
 acaggaaggc taacagaggt atatggtcaa cgacacaagag acagagatgg tactagaaca 300
 gaaaacaaag cggatacacc aaaaaatgtc agacacatgg gaaaaacgtt gactatgata 360
 ctatgcaaaa aatgagcaaa tgatagaagc aaaacatgtg agaaggatct acatcgcgac 420
 gatggccg 428

<210> 16024
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 16024

tgtcgaaatg actaaaacgc attcttgcac tgattgttct aagtcttggg acccttgtga 60
 cacttgtcat tttgctaaac aaaagaggat gcctttccct gacaacatta ttgtttcctc 120
 ccaatatttt gatttgttgc acatggatat atggggctct tatgctcatc cttcattact 180
 tggtcataaa tattctctta ccatcggtga tgacaaaaac atatatacat ggattatttt 240
 cctataatta aaaccagaag tgtcaaatac tattaacac tttatatcta tggttgacac 300
 tcaattctct gtcgcagtta atagcattag atcacacaat ggccctgaat tttccctgaa 360
 aaatttctat gattcccaag gtatttttca tctaacttct tgtgtggaga cacccca 417

<210> 16025
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 16025

tgcttggaca attgtacatg tgaagcattt ggagagaagt gagattttga agcccttttc 60
catccaacaa cntnaaacca ctgaaattgt gtaggaccag anattataga gaagtgggca 120
gtaactgctc cttcaaaaagg gtgttaataa gatcttcac attacggaga cccttaacta 180
aaagatgtga cagagaagtt aggtgttggga atagcaaacc taactcttgt ctagacatag 240
ctgatagtac tcgaacatca acgtaaagt atcgtaaacc ggaaggaaaa caccttgngg 300
acaatctagc ttctgaatcc aagtgttcaa tggcggggag atcaatctga tctggcagtg 360
atctatagtt ctcacaatca gtgacaataa aacaactaat ttggaagctg ctctccacc 420
ttgagtagta attgcttcca 440

<210> 16026

<211> 385

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16026

tatatgctac aaagtgttta gcaaacacca caaaccttat caattctctt atctcttcat 60
aatcaagggtg gacatattgt aaagtcataa tctagaaaaa acaagggaaa aaatttcaac 120
cctgagccca caaaaacaaa gagttgtgtc agaagttaaa ttcaaagaca ataaattact 180
ctcatagggtg gacactagaa aaatggggct taccatatgc aggttcaaat gtccaaatga 240
ccatatatta actcttttta ttgagaaaat taacatatag aactcacaaa agactaagat 300
atcagggcac aaaatgataa tgatgatgat aaaattattg atactntgga cctttaacaa 360
ctcatgggtt taacatggaa gatca 385

<210> 16027

<211> 393

<212> DNA

<213> Glycine max

<400> 16027

tgcttgatga agaagagaat actcatatca gtacacgtat agctggaaca atgttagtac 60
tgtgacacat ctattagcct gcatccagga tttagatcat aaatagatga tattttataa 120
gtagcataaa aaaccaagag tccaagactt ggttcatact tagttgatag tatttcatta 180

ttaattttat tagcttaaac aattggcttg cactgctgtc cacaatttgt ctctgcatg 240
aagttataat caattaaata atcctaggaa tacttatgtt tcattgtttt gtgaaatcgc 300
tgactattgg ttactacatg tcttaatagt ggttacatgg ctccagaata tgctatgaga 360
ggttacttga cggataaagc agatgtatat agc 393

<210> 16028
<211> 408
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 16028

tctaaaagat ttgtgcaccc acaaaaggaa gctatttgca atgaaaggat tagcatgggc 60
agaaatatgt cagcatttat aggtaaatth gttcttcaca ttcttgagaa atgtaaggac 120
ccagggtactt tctgtatacc ttgcattatt gggaacagta aatttgagaa tgccatgcta 180
gatctatgag catcagttag tgtcatgcct ctgtccattt tcaattcttt atctcttgga 240
cctttacaat ctacagatgt ggtgattcat ttggcaaata gaagtgttgc ttaccccaca 300
ggtttcatag aggatgtgtt ggttcagggtt ggtgaactta tttttcctgt tgattnttat 360
gttcttaata cggaagaagg attttcccat ggtttagttc caattatt 408

<210> 16029
<211> 396
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 16029

agcttagccc tagaggggat ggaccttttc aggttttgga gaggatcaat aacaatgcct 60
ataggttgga cctcccagaa gagtatggag ttagcaccac ttttaacatt tctgatttaa 120
ttccttttgt aggtggagct gatgttgagg aggaggaact aacatatttg aggtcaaate 180
ctcttcaagg gggaggggat gatgcaatcc tccctaggaa gggaccagtc acaagagcca 240
tgagcaagag gctccaagag gattgggcta gagctgctta agaaggccct acggttctca 300
tgaacctcaa ggtagatttt tgagcccatt ggacaagggtt ggtccaatt atctntgtac 360
atatttgatt angatgtcat tatatttggt ccttgt 396

<210> 16030
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16030

tcccaaggaa gttttctcaa gaaatcttct caaggaatct acctagtcta taaatagaag 60
 catgtgtaac acttattgta actttgatga atgagagtct tgtgagacat acttcaaagt 120
 tccacttctc tccctctttt attccttcaa tttcgtgctc cccctctctc ctttctctcc 180
 ctctttcttt tcttcattg aagcattctc tccaagcttc ttatccaaag ctcattcttg 240
 tggcgaagct cttctttcca tggtttatc cctagtggat ggcgcctcct ctcacctctt 300
 ctcttttgct ttccgctgca tctccatggt ggaaaatcac cattgaagga cctcatttaa 360
 gctcanagat ccagcctcca tagaagcccc acaagcaagc ttccatcaag tggtaatcag 420
 agcacaag 428

<210> 16031
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16031

atcttctatc aagtggtaat cagagcacia gagcttcaag taggtgctcc ttaaacctcc 60
 attaatntt tgctttacct tatcttccat tggtgtttct tcattatttc tccatgtatc 120
 tctcacatg tcttgatgata aatgttggtt acatgattct ttagagtttc caccgattaa 180
 acttgctata gaagctagat ttgattttct atggctcaaa tttcttggtc ttgttcttga 240
 accatgaatt gtgttgagtt taagtctcct tgagttttgt cttgttattt tttttagat 300
 gaaacctaaa ccataaaatt cttacaaaaa tattaaagta gaagaaaaac tcataaatct 360
 agagtgactt gttcacctat tgtagttntg tcatataagt catgcctagt catgaaactn 420
 gtcacataag aattcttat 439

<210> 16032
 <211> 428

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16032

ttgagccaga atcctgtctc accataaacc ttgttcttgg tgagaatgtc aatccttacc 60
 ctcggaagca aaaaaaagag agaaggaaaa tttccaatca aaggaaaaaa gagaggaaag 120
 gaaatttctca atcaaagagt gggagaaagc aaaaagaaaa gaaagaaaat tcccaatcaa 180
 agaatgggag aaagaaaaaa agagaaaaga gaaaagaagg aaagaaagct cctgatcaag 240
 gatcgaaaga aacagaaga aatgtgcaga aagggtctttt gaccagacaa tatctgaaca 300
 atacagaatt gtcaccaa at gaacaaaaga aagaaaagga aaccatgacc tanagtgggc 360
 ttatcccttt gattaccaac caaaatcctg tgcgtcgggtg acttgctcgc ctgcgcgcaa 420
 acaaaaac 428

<210> 16033
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16033

tctagcttga aagtgtctta tgcttcatgt ttcaattata tgcaaaaagt cttatattca 60
 tcacaagtaa atattttata attaatttaa ataaattctc attaaatata aaatatttgc 120
 tcttgttaga tatattaata atgatacaca ctatatgatt ttaatattta tataatatta 180
 aaaaatattt ttattaaatt tttgtgcgaa ttaaaattaa ttattctatc acgttgtctt 240
 gtgaatgtag tttattattg tggaatgtta acgataatct ttttcacatt atatttctaa 300
 cactntatat gattgattag aatttattca aaatgattaa ttttagtggg tctcacgttt 360
 aaatcgaaag aaaaaatata ttatntacaa atttaaaatg gatattaaaa agaaagtgtc 420
 aaaaaatggt act 433

<210> 16034
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 16034

tttgttttat ataggtctca tttttaagtg tttgttgtct cacaatgagt agatttctac 60
acttatcttc atatgatgaa tgcggtcggt gggggcattt aatgtttgca ttaaatgcac 120
gtccttttct catgtagaga atccactatt ctaagcttgc gtgttgagta ttaagcatgt 180
agtcacctcc tttttgtcaa agtagatttt gtacagcaaa actcttcatt tgatgggtgat 240
tgaaaaattt cataccttta tttcatttat tcttcataaa attcaacaga tcctaggaga 300
atatttctac aaaaaagatt tcatatatta aatatcatct taaatgttgt attagatcat 360
aatcatattt atctattgtc taacaaatta gacacaaact tttctaggca tgtntgctaa 420
aacatta 427

<210> 16035

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16035

agcttgacat cntttgatat atcatacaat cagtttgagg gtccacttcc aaacattcta 60
gccctccaaa atacttcaat tgaagcattg agaaataata aaggcttgtg tggcaatgtc 120
actggcttgg agccttgcac aacatcaact gcgaagaaat ctcatagtca tatgacaaag 180
aaagtcttaa tatcagtttt accccttagt ttggtcattc taatgcttgc attatctggt 240
ttcggagtct ggtatcattt acgccaaaat tcaaagaaaa aacaagacca ggctacagat 300
ttactatctc caaggagtcc aaacttatta ttaccaacgt ggagtttggg tggcaaaatg 360
atgttcgaga atattattga agccacagaa tantttgacg acaaatatct ta 412

<210> 16036

<211> 425

<212> DNA

<213> Glycine max

<400> 16036

taaaggtggc accttatact ccaccaaag agcctaccaa acctcacccc acaacgaatg 60
gtaccactca agtcatgagc atggacgaag gatctccagt ccaagccttg actatcttcc 120
aagtaagcct ggatgatgaa ttcgatgtag atccgcgtga tgacactttt gacagagtcc 180

caaagcctat tgaaagcttg tcaagctaca gcttaaatacc aatcttgagc aatctatgca 240
 actcagtagg gacctcacca accataagca cagacacata gttgatgtcc tacacaggaa 300
 cacggacctg tttgcttgat agccttctga catgtaggga atccacccca acattatctg 360
 ccacaagctc atcatctgtc cccaggccaa actggtatca caatataaga ggaagatggg 420
 agaag 425

<210> 16037
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16037

agtctcctct accgtaaaan anaaaaacat tatcggccag tgagcgtatt taaaaagtaa 60
 ttgcgcaatg tcaactgana aatatcagtc gggctacttc acgaccgatg tnggctattg 120
 agttntctat gcaatccctt aatgaaatat ttatgatgtc ggtaaggaaa tgatcgatcg 180
 gcgtcatgcg gtgatgcttc ttttttagac ctcgatcggt catctatctt ggcggaacgtc 240
 gactggcatt tttttcaatc aatatcggtg aaaaatatatt ttttgccgag atgggctaatt 300
 gtnttctctg ccgaataaat gggaacatgc cagtttctgc tgaaacaaaa cgtctgttga 360
 gctcgtctca aataacctag ccgacctaca ttgtacattt tttatgcaac 410

<210> 16038
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16038

ntacagcaga tnttagtaat gaccactaa cctagaatta aaataactta atgccattaa 60
 gctaggggaat taaaaaacia acttaatggc tgagtgtaac tgaaattgtg gcaacaaaaa 120
 gtcaccccca acagccaaca agtcagccac catttggctc cccaaaaggc tgatgcctat 180
 gttgccaatt gggcccttat tacaacttga actaaaccta actaaagccc ttttagttga 240
 ttaacccaaa acatatTTTT ggtcagccaa ctggtacgaa aattgaccaa gaggagtga 300
 aatcaacac aagtgaatt caaaggggaag ttaatggcgt gggggctgtt tggaatcctc 360

atcaagggct gagtttaatt acttggtat ttttaagcatt gtcacagtt aagacaaata 420
aaattcagcc attcaa 436

<210> 16039
<211> 418
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 16039

agcttgataa tggaggattt ccttgagggt cctctcttat gcaatcatgg aacacaactc 60
caaactcaaa aatggaggac acatgaatga caacgccatt cattcatggn gctccgataa 120
agggtaagaa tggaggattt gcttgagggt cctctcttag gcaatcatgg aacacaactc 180
cataactcgaa agtggaggac ccacgaacag gcctaagcaa tagcattcat gtggctccga 240
aaaaggatga gaatggagga ttgccttgag ggtcctctct tangcaatca tggaacacag 300
ctccaaactc gaaaatggag gacacatgaa tgacaacgca attcattcat ggtgctccga 360
aaaagggatga gaatggagga tngccttgag ggtcctctct tatgcaatca tgatacac 418

<210> 16040
<211> 432
<212> DNA
<213> Glycine max
<400> 16040

tcttttggac cttgaacaag ccatcaattc ctcttttata accatgctat gtgctcgcga 60
ctggctcctt tcttcccttc gcaacttgag ttactattg ctaccccata gagctccgcg 120
aaatttggtc cgccatact cttccttgcg agccctcttg gtctctcggt caagggtctt 180
tgcggttaatt gcattctctt cccgtaacct ggcacactcc ttccgaacgt gtgtagcagc 240
caacttgaac ttctccttg cgagttttgc ctttcctaac tcgcttttga gagcttggac 300
ttctctgtcc tcttccggtg cttcaaaatt ctcttctgtg acgactttta acttggcgag 360
ccaatctaaa cctcgtatgc gaactttcag ccattcgttg taccaccaa tgatgccatt 420
acgaacgcct ct 432

<210> 16041

<211> 441
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 16041

 agcttattaa anaaataatg tatcattaga aaaccaagtt attaaaagca acaatatatt 60
 atctttttatc tcacctgttt taatagaagg ttcattcttca cctttcatta aattgccatt 120
 cacattagac aatattcaac acttgatagt caatattttg ttactatgta gcttatctct 180
 ttattcaaaa aattgaaaaa agcaacatat atagcaactt aaaataatat taagaaacaa 240
 aaatgtaaat acttaattca atcaaaaaag ggaatgataa atcaaccaa aaataaatta 300
 cgaagttata tatatatata tatatatatc aaaactctct acagaagaaa agtcaataaa 360
 aatgcataaa tgaatntgta taantaccat ttgggataaa acaatnnttt ttntactana 420
 aaacatagaa ttactcaca t 441

<210> 16042
 <211> 428
 <212> DNA
 <213> Glycine max

 <400> 16042

 tgcggactat accttcgacc gaacacggcc gtgtttcttc tatgcccgga ttcaaggcgg 60
 gttgcagcac cggctccgct tccctaacta tattggaggc ggttgcggtt gcggcagcac 120
 cccaagattt ttagataacg taatgagtc agaacttctc attttataaa aagaacaaag 180
 ctttcatcta gccaaagatta tacaagggtg ttacaaaaga acctaacgat tccataattat 240
 atggggccatc aaatctatca tgtgctgaca gtaattgatt agcccatgga tctcctcggg 300
 ggcagtacac actttggcca tggtttttgc tttggctaac agacgcggga ggtcttgact 360
 tccatttaag gtcaaggcga acctatccat ccacatagtc gtttcttgat gcaacgcac 420
 aatcaccc 428

<210> 16043
 <211> 445
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations

<400> 16043

agcttttata taaacatggc ctcagcaaac tccttatttc cagaagggaa ttctatcaat 60
agacctccaa tctttaatgg agagggttac cattactgga naaccggaat gcaaatnttt 120
attgaggcaa tagatctaaa tatttgggaa gccatagaaa tagggcctta tatacccacc 180
acagtggaaa gagtttcaat agatggtagt tcatcaagtg aaagcataac tatagaaaaa 240
cctagagata gatggtctga agaggataga aaacgagtac aatacaactt anaagccaaa 300
aatataataa catctgccct gtgaatggat gaatatttca nggtttcaaa ttgtaagagt 360
gctaaggaaa tgtgggacac tcttcgataa cacatgaagg aactacagat gttaaaagat 420
ctangatata tgcactaact catga 445

<210> 16044

<211> 433

<212> DNA

<213> Glycine max

<400> 16044

taccaccata ggaggccatg gataagagct tggagggtta atgagatgaa tgaagggaga 60
ggaagagaag agcacgaaat tttatgctcc aaatgagctt tgaaatctga agtttaatat 120
tcaaatgatac aaagttccaa aaaaatgcac acacaaggcc tctatttata gcctaagtgt 180
cacacaaaat tggaaggaaa tttgaatttc tattcaaatt tcacttgaat ttgaaattga 240
atgtgtggag ccaaactttg gagccaaaat ttcactaatt atgattagtg aatttaagct 300
atgggttcata ccactaatta aagatcaagt ccaagattct ccactaagta tgcttaggtg 360
gcatgaggca tgtaaagcat gaagcacatg cacaaagtgt gactatatga tgtggcaatg 420
gggtgtagca agc 433

<210> 16045

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16045

ttttgctttt attttagtag atgaagatga atctgtggcc acctcatgga ctctcttaag 60
gataatagca tcattttcttg cactgaattg ttgggagttg gaagccatct tctcaatcaa 120

attcctagct tcagcagggg tcatatcacc aagagctcca ccattggcag catcaatcat 180
 attcctatcc atgttggttaa gtccctcata gaaatattga agaaggagtt gctcagaaat 240
 ctggtgggta ggatagctng cacacaattt cttgaatctt tcctagtact catacaagct 300
 ntctccacta agttgcctga tgccttgaaa tgtctttctg atggcagtgg tcctagatgc 360
 anggaagatt ttctccaaga acactctctt aggtcatccc agctgaaacg gacctgg 417

<210> 16046
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16046

ntctagcttt tcattggtgt attntgatct ccttttggtg ctctaaattg tgggaatgtg 60
 cttaaatatg tggggcaatt ttggtttggt tacttgcttg attaggttga attgggggtt 120
 tgtatgggat ggccctaggc ctataatgca ttttgaaaca atgggacatg ccacattgtc 180
 cccgttctct tgctattgat gcctaaacgc gcgcccacca agtggttcggt gaaatgcctc 240
 aatggcatta gcgcgtgact tttgtaagga aacaacccat ggggcatttt ggtttgcaca 300
 tattttctat tttttggggc atgcattcgt tcctgaaaag gttagagtaa ttgccccaca 360
 tataattctag gcctaggaac caaagtnta tgcaaaaaga acacaagagg aggtgcatat 420
 tngntaaagt tacc 434

<210> 16047
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16047

tgcttgtcat tgctcanaag accctccaag agataagagg aaaattcctg aaagataaca 60
 acaaaaatga agggtcatt tcttcatgac ctagctaatt gaatttctgt cgctcaaca 120
 taccatgttg ggaagtcgtc aaagagatat cttttgctg attcgtgtgg caaatacagc 180
 aagtccatca ctaaatacaa gcaaaataga gcaccctttc atcacaaatc tggattctta 240
 caaagattcc gagagcatgg tatatatata atctttaaca acttaaattt tatttttcgc 300

tattgcttag ttgcaagata tagaacaatc ttctgtcata atttgtatga tgcataattt 360
gacatgatta ttggaaaaca aaatgaagct cttattgatg gctngaaact gtngttgttaa 420
aatgcagt 428

<210> 16048
<211> 430
<212> DNA
<213> Glycine max

<400> 16048

cttggttaatt gctgacgaat gcagtcacag taacattaga ttatatgact ttgagcaaac 60
atcattctct ctataatttg tctccatttt gttaaaactc atatgaagtt ggagccaatt 120
gtattagtag ctcttttagc ccttaatctt tttaggcaca tacttgaaac tgacatttgc 180
aatttttttaa tgcttgcaaa agtttgagac aattagtttt ggttggatca ttctgattca 240
tgattcaagg agcaaaattt tcaactgaatg tgaacaaat agtatgattt tcctgaaaac 300
tatagtcaag tgttcttttag gatcttaatt tgtctcccggt ggaccctgat tatttttttat 360
aataataact tgcaggaata tgaagacaga ttaacgggtg taaagattga tcatgatgcc 420
aaccgcgagc 430

<210> 16049
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16049

tttctttccg caagacttac ggaaagatct tagagttgac catagcagag gtgtccatag 60
aagccattgc agcacttacc caatactacg accagccctt gagatgcttc acattcgggg 120
acttccaatt agtaccaacc attgaagaat ttgaggaaat tctaggatgt cctctcgggg 180
gaaggaaaacc atatctttcc tccgggtgtc tcccctcttt gagcagaatt gcaactgtgg 240
tcaaggattc agccagaggt ttggaccgca taaaacagac tcggaacggc atagcgggcc 300
tgccacagaa gtacctagaa gacaaggcga ggggtatggc caatcaagga gactgggtcc 360
cgtttatgga tgtgttagct nntgctaatt ttggggcat cctctttcca aacgtgga 418

<210> 16050
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16050

ntctagcttt tcattggtgt attttgatct cctttttgtg ctctaaattg tgggaatgtg 60
 ctcaaata tggggcaatt ttgatttgtt ttcttgcttg attaggttga attaggggtt 120
 tgtatgagat ggccttaggc ctataatgca ttttgaagta atggggcatg ccacattgtc 180
 cccgttctct tgctattgac gcctaaacgc gcgcccacca agtggttcggt gaaatgcctc 240
 aatggcatta gcgcgtgatt tttgtaggga aacaacccat ggggcaatct ggtttgcaca 300
 tattcttggg acatgcattc atgttcgaaa gagctagagt aattgccccg catatgtcct 360
 atgcctagga accaaagtct ttatgcaaaa agaatacaaa aggaggtgca tatcgtgtaa 420
 agttaccc 428

<210> 16051
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 16051

tgtcttatct aaaggaaatg gttaaatacc acctcaagct aatattaaga atgtggctaa 60
 gtgtttcttt tgcaagaaga atggacacat gaagaagaat tgcaccaggt tccagaaatg 120
 gcttgagaag aaaggtaa atcaatctcatt agtatgttat gaatctaata tggtagtgt 180
 taatattaac acctggtgga ttgattatgg atctactatt catattgcgc attctttata 240
 gggtagcaa aacctaaaga aaccagtgtg aagtgaagaa agcattttat caagcaataa 300
 gctatgctca catgtggagg acattggaac ttgcatattg actctaagta gtggctttat 360
 tttagaatta gaaaggactt tgtatgtacc aagttcttcc cgatacttga tttctatttc 420
 aaggcttgta ccgt 434

<210> 16052
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 16052

tgtctcagca tttatgcgag acggagacca catgcttcta tcatcgccaa gtaccaagaa 60
gagttagggtc tagccacggc ccacgagcat agaatcgcg acgagtatgc tcaagtatac 120
gcggaaaagg aggctagagg aaggggtgatc gactctttac accaagaggc aaccatgtgg 180
atggatcgggt ttgctcttac cttgaacggg agtcaagaac ttccccgctt gttagccaag 240
gccaaggcga tggcagacac ctactccgcc cccgaagaga ttcattgggct tctcggctat 300
tgtcagcata tgatagactt aatggccac ataattagaa atcgtttaga aacttgtatg 360
gtctctcaga ccttgactag atacgacttc ctttttgaaa tataatgagt tgggtcccatg 420
tttctactc 429

<210> 16053

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16053

tgcttggtgt ttcagcatat gattagcaag atgatgcaac caattctaag gataccctcc 60
gaagtccctaa cggtttctact gttgaagcaa gtaaaacaaa atatgccaga gataaatgag 120
cgaagcagct ggaaaatcta ctagtggatt tggcattttc tccaaagagt gtcacttata 180
gttcagtcca ctacagaagt tatgtacatc acttgtagtg aaactggagt ggaaatgcaa 240
gtactgacca acagttagtt gtgtggcctt tgtgatacga atatacttgg aagtaaaaag 300
tagttggaca aaaggggtcaa acaatgaact ctgaatacgt gtgaatgaag ttattcaatt 360
gattggcggt gattcttcat cattgntgag ttcataaaag aaaggatcct taaggagatc 420
tgt 423

<210> 16054

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16054

nttccagagc tacttggatg agcatatatn nntttctttc tcactatatt cttttttaat 60

atatatgaac cagcaagtca gaaacctggt aagaattaag cttctgtaat gcattactaa 120
 ccaattcttt taacagaacg ttccttctgt ataaaatgct ccaacttcaa taactaagct 180
 agaaccaatt tgatagtcct actacaatat ttgtggaaga aatagtgaca aaactggggt 240
 cattcatgga agccaagatt gataacattg acttcacaaa atgttgctgc atagcttata 300
 ctaaattaga caccaccatt aatgaaacat tgcattctgt tcatatcaat ggtgtcgtca 360
 gctatcaact gantttccca attaaaaatt tggtaatgga ttntttggaa atttgaggct 420
 gtagtatgct 430

<210> 16055
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16055

agtcttcaag ttagcagcgt cttttccggt gaacttattt tgtatatatt ttatgaatga 60
 gattgtttgt cntaatcaaa ttgtactctc accttgcttt taggaaagat ttgtatgaac 120
 tatttatattt tgcattgtctt tttaaatggg attatctttt atttaatatata gaaatagctg 180
 aaactttctgt ttttgatgtc ttaattttgt ttcaagattt tctgaatgga tgcagcatga 240
 ggaatatatg ctttggtggg taaattatga gatagtcac ttctaagcaa actgtttattg 300
 tcctatgttt gaaaatgtac agaattgtga gctctatcaa gtattccacg tggtgactgg 360
 tactgccaat ttggccaaa catgttccag agagaaaagt ttgtggcgca caacgccaat 420
 gctgtggcag ct 432

<210> 16056
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16056

tagcctcagt ttaaacaatt atttggtccc cactccttac ttttaggcc aagaaagcat 60
 cgcgattcgc cagcccaaag aactccac catttgcttt tacttttact tttgtttctt 120
 tttatttaga ttttttttta tgtgaatgaa agccagaaat catgagattt ataacagttt 180

atacacgtta aatcaaatta actaaactcc ttgataatat atttgatcag tactatataa 240
 ttttggtttc ctagatttca attatgagaa ttgcatattt ttatatatca taattgtgtg 300
 attttaattt tttttaattt tttgttataa attttaaaga catggcacta aataacgtgt 360
 taatgatatg atagttgatg tagaatttgt gcaattgaaa cnttgagcga caaanatcac 420
 ataattgtg 429

<210> 16057
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16057

tagcttcccg ccaatggtat ttaaaatttc atgagggtcat ttcttcattt agctntgaag 60
 agaatgtcat ggatcactgt atataccaga aggtcagtgaggagtaagatt tgtttccttg 120
 tattatacgt agatgacatt ctgcttgcca ctaatgataa gggatgcta tatgaggtga 180
 aacaatttct ctcaaagaac tttgatataa aggatattggg agaggcatct tatgtcatag 240
 gcataaagat ccatagagaa agatctcgag gcatntagg cttgtctcaa gaaacctata 300
 tcaacaaagt tttagagaga tttaatatga aagattgttc accaagtgtg gctccattg 360
 tgaaggggtga caaacttgct ntgagtcaat gccccaaaaa tgattntgag cggaacaca 420
 tganaaatat tccatatgc 439

<210> 16058
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16058

tctagccaaa tggacttacc ttgaattaat tccttttttag cccttttgag ccttgtttcc 60
 ctttccttgt tttgaagctc actacaagcc ttaaatgaaa aaccatgata tcaccatata 120
 cttaaggaat tttggagctt tgggaattgtt ttgggaataa gtgtgggggt tttgttttca 180
 ttggataaca tgttttggtg gctatgcttc atgatgtatt ttgggccata cttgatgtac 240
 attgtatatt ggttaaatgt tggacatgct gaatgagatg ttgttttctca aaggctacgt 300

acgtaaaaaa aaaatcgaaa aagaaaaaga aaagcaataa agttgagtga atatgatctt 360
 aaatgacaaa agtatgatga gactctnggt tctactctnt atgttntaaa tttatcttta 420
 cttct 425

<210> 16059
 <211> 445
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16059

agcttcttac ttgggaatca gaaaaaatact atggagcaag gtttttcatt cttaagtact 60
 tggataaaat gataaatcaa agtaaaactt tcaagtaaac ttaaataatta ttgttccaaa 120
 agttactctt aaaatatcat attttgttgt ataacagaag ctgggttttca tttttctctt 180
 aatatttctt ttgtaaattt tttttaataa aatatcagag tataatctttc gtaaataagg 240
 ttttccaaaa aaaataacta agcatgcatg caacaactaa aactaatgag aagcaataat 300
 aaaggacaca tcacacgaag gatttatatt ggtttactcc aactcgggct atgtactgta 360
 cctacatata tagcatntct ccactaatac caagcaatcg actaaggaat tattttctctc 420
 ctaaagcctc tgtaggctcc taaaa 445

<210> 16060
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16060

tgaactatag aatctgcagc tgctaccata ctgagaatgc ctatcatggg aagaattatt 60
 gtcgtttacg ctgaccacat gacagcgca gagtggtatg cctcaagtct cacaatcagt 120
 agatggacta aatgagtcga gcctacgaca cagctggtgg catacactga cctgaataat 180
 ctgagggata cctagcttga tccgagagaa gaatgacaga gggaaaatat gacggaagaa 240
 gtcgagcctt ttctactcag tagagaaaca tcccagtga ccaaactcaa atagttaatg 300
 atcgagagg tggaagaaaa tattaccat gtactagaag ctaatggaga cttattctga 360
 tgggccagat cagatatgcc tataatcgac tctaagattc cactatcaca agctangaat 420

ctatctagaa tctaaacctg ttgtgcaaag a

451

<210> 16061
<211> 371
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16061

agctattata ttgggaaaag ggtgtgaata acgattagtt atgtagagac aagacacgat 60
agatacaatt gtgaaaagaa ctcatTTata tgcactctga agtanaagga gaattatgac 120
actaaccCAA gtccaacttc tcaatgattc ttaataacat tgcccttata ccatttgtct 180
atgcaattat tttctcgttg acactaatta gaaagcaacc tagaaaatcg aacggtataa 240
tttactcaag aggtgaaagt cagtatatat gatctttctt ctatataatt aacttgatgg 300
ttatatgtct ttggataaaa agtcaagagt ttctgttatt gttatctggt acgtaagact 360
attcctaata a 371

<210> 16062
<211> 434
<212> DNA
<213> Glycine max

<400> 16062

tgaagaatgt aggaacgaga atgtctcatc aagaatgtat gagtagtcag gatttagtgc 60
caggtaacat ggaacatgga atagatgcta ctccaataac ctggtgggca gaaaacaata 120
gcctttccaa actgtgtttg caatcaaata agtttgaagt atctactggg ggaaatgatg 180
ccggtctgtc ctgcagcct aagattaaac ctctaaattt ttttaactgt catgaaagca 240
gcaaaaacaa cccagtggag actaaaaatt attccatctt gggccatagt aaggacaagg 300
aagaagtggc atcacattca tcttcaacca aacaaaatac agataataat gataacatcg 360
attctaatagt gctatgtgat agaaaggaag aagagaatat ctgtcacaga agagataatc 420
tggaagtct gtgg 434

<210> 16063
<211> 376
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16063

agctattact tttagttgat tcaactctcgt atcataaact aaaagtttgg tgtttcttac 60
ataaaagttg agacatcaca atcttaaaaa gctcaaaacta tgaaacagtg gtatacaaca 120
attattgatg tgaatatatc tgcattgtgat ttcaagggtca ttggagctat tctcatatta 180
atgggactnt actcggatct gtggggcgaag cacaaggaga acaaagagaa agaggcagag 240
ataaccattg aggtattgaa gtgttgatca taaaatggga tgagggttga gactgtggta 300
gaatatgctg aaacaaacaa cgacattgag atgcaaaagg gtgaagcctc aagagagcta 360
agggtagcca ttggag 376

<210> 16064

<211> 433

<212> DNA

<213> Glycine max

<400> 16064

tgaatagcag atccagtgc ctcagcataa tcatgtttta tcaactatgtt ccctaaaaat 60
tctgtgggat tgagtatcta aaaagtaatg acaaaattga ttagtttatt aattaatgga 120
tgactttttt ttatcgggta atgaatatgt acttggttgc tgcattatta acttatataa 180
tacttacttc caaccattct tgagttcctg atgggttccca tgctgctaaa ccaccttttc 240
tactctgcaa taattaagag aaaaaagaac cacagttgca tcaaaaagtaa atattctagt 300
agtaaaagta aatcaaacat caattattaa tgtegtctgc gctaaccoca acttcccaat 360
gataaaagat taaacaaaga gaaggaccat caattgattg atctattaat taattaaag 420
catatgacca tga 433

<210> 16065

<211> 186

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16065

agcanctagc caaatggact caccttgaat taatgccttt gatagccctt ttgagcctat 60

665401 : 3074640

gtatccgtaa ctttgttttg aagctcaata caagccttaa gtgagaaacc atgaactcac 120
cttaccctta aagaattatg gagctgtgga attgttttgg gaataatctg ggaataagtg 180
tggggg 186

<210> 16066
<211> 437
<212> DNA
<213> Glycine max

<400> 16066

tcatgatgaa tcaagattga ttcaaagaag ttttgattat tacaaaggta atgacaaaaa 60
gctcaaagggt caagaacact tcatgataac aaagatgatg atctcaagaa tcaaagaatg 120
agttcaagat tttcaagatt gaatcaagaa cacttcaagg ttcaagagga aatttgattt 180
caagaatcaa gaatcaagat tcaaggttca aggttcaagc ttccaagaat caagatcaag 240
attcaagact caagaatcaa gaatcaagag aaaaattaat caagataagt atgaaaattt 300
tttttcaaaa actgagtagc acatggattt ttctcaaaac ttgtttacca aagagttttt 360
actctttgggt aatcgattac cagattgtgg taatcgatta ccagtagcaa aatattcttg 420
aaaaagtttt caactga 437

<210> 16067
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16067

agcttattta gaaacaacta ttacgtccta ccactctagg ctacaataat atcctctagg 60
ccactatttg cacaccttta gactcatcat gaatctaana aactcaagta ttgtttaaca 120
ctaagccatt nttggctttc acaaacaaat aatgtttgat tgaatacaca aatttaaate 180
actcaacata gtggataaac aattaagctc gaatacaaat aataactttg atatgtaaat 240
gatgaactaa ttaagcacta ttatgtatca cccaatgact tgacaatttc tcaacttcaa 300
atgctcttgt ttttcacttc gtattttcgt tttttttctt cttgcacttg ataacgatgc 360
cttggtcact ntttataaac ttcatgaaag tattcattac gagattatng tttgtctctg 420
aattgaccgt tgtcttac 438

<210> 16068
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16068

tctcccccat tttcttataa atggggggag aagtgaatat aaatttcgtt tagccctctt 60
 ggtaattcag aatcacttaa aattagttaa aacaattggg tccgtgaaga aaatccgagc 120
 cgaggcactt ccgtaacgtt tccgtaacgt ttccgtgggt gatttcgcga aggttttcga 180
 ccgtttctcg acgtttctca ttcgttcttt gtcgttcttc ggtctccaac cggttaagttc 240
 cctaaatcaa acttttcaat tcattctatg tacccttagt ggtcctcatt tgcttttatg 300
 ttctttcatt tacatttcat ttactttcgg taccctctt tgacgtgctt tagtcatttg 360
 cttaagttat tttctcgctt aatcaanaaa taaaataaat gtccaccgtt catttgaatt 420
 gtaacat 427

<210> 16069
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16069

agtcttctga agaaagtgat gaggtacaag ccctaaaggc agagcttgaa agagccccggg 60
 tagtcgaaga gaagttcaag tccatagcca tcaaagtctg aanagagtat gatgaactaa 120
 gggacgtcaa tatggccaca gctgaagcct tggaacgaga aaccaagaag gcccgaagg 180
 aagaacatga ccaaaacaag ttttgagggg ctttataggg cagcaatagt gagcccaagc 240
 tccgaagagg tgaaaggaat catcacgggt caaaggcatg atctggaagg acgagctaaa 300
 ggcttgctt angtcgaaaa gaaatttgct ccaacagtta aagcgagact gaagggaata 360
 tgtgggcat catcgataag tgcaaagaga agctaaatct 400

<210> 16070
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 16070

tccaagaatc aagatcaaga ttcaagactc aagtattatg aatcaagaga agacttaatc 60
aagataagta tgaaaagggt ttttcaaaaa ctgagtagca catggatttt tctcaaaaaca 120
tgtttaccaa agagttttta ctctctggta atcgattacc agatttttgt aatcgattac 180
cagtagcaaa aatgtttttc aaaaaacttt caactaaatt tacaacgttc caattgattt 240
caaaaagctg taatcgatta caatgatttg gtaatcgatt accagtgtgt ttgaacgttg 300
aaattcaaat tcaaatgtga agagtcacat cttttcacat aaaagctgtg taatcgatta 360
cactaatttg gtaatcgatt accagtgtgt gtttctgaat aaatcaaaag atgtaactct 420
tcnaaatggt ttt 433

<210> 16071
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16071

agttttatgg gcctacgaat aattnttggt tggacaataa catattaaat attaaaaatt 60
aaaaagaaaa ttntggacag gtaataaagt atatgggttg tatttgatg cgtaaaactt 120
aaagagtcac tagagagggt ctctctctct atctctctcc cgccattgaa gtaaagtaac 180
tatctatcgt tctgagaatg agaatcaacg cattctgtgt ctccgcctct gttctatat 240
attctccttt tctaatcca catgtacttt ntcgggtttt ccattcttct gttatgtatt 300
tacactaatt actttttagt ttaaccactg tgactctcac tgattaatcg tggtatctct 360
agggtgcgct actgcaagat tggaagcttc ggaagcat 398

<210> 16072
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16072

ntgatcagaa gtcctctttt gaaagagcgc aacttgtcta attgaggaca tagcgcatga 60

tctcgggtcga tcattatgca tgctgcttgt ggccagcctt gaagtgtcca tagatttttag 120
 agaaaagatt ggcacattgc aaaaacagct gatgaatgcg agatttggtg ggaatatgag 180
 tccaacttca agttcgatat caagatttgt caatgaagcg aaggagggag gggaaataga 240
 agaggagata attgatgtta ctagtgatga tgttttacta cagcttaaga atggtgatgc 300
 cgaggaattt gcagttgcac tcttaaggct aaaaaagttc atcaggggtg gaaaactgga 360
 tagcgggtta attaattgtg aagctgctgt ttccattctt tttaaccgtc cattttcgtc 420

<210> 16073
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 16073

tgctttaaat aggctctaaa atcgcgacgt tgcacttagc gccaccctcg tgcttagcgc 60
 gagtaagtgg gtttgggctt agcgccaatc ttgcactaag cttggctgaa gacacctatt 120
 gcgcttagcg cactgggtctc gtgcttagcg cccggccttg atattcacgc cctgccagat 180
 tctccttcgt gctaagcgcg atgtgtagaa acaagcttca tgatgatgaa tcaagttgat 240
 tcaagtagtt ttgatgatga caaagatgat gacaaaaagc ccaagagaat gatttcaaga 300
 ttgagtcaac aagttcaaga tcaagtttaa tttcaagttt catgagaaga aatcaagaag 360
 attcaagaat caagagaaat ttgatttcaa gattcaagag aagatgaatt caagattcaa 420
 gagaagaaat caaga 435

<210> 16074
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 16074

tcatgatgat gaatcaagtc gattcaagta gtttttatga taacgaagat gatgacaaaa 60
 agcccgagag aatgatttca agattgcgtc aacgagtttc acgaatcacg agaagtgtga 120
 ttttgagatt caagagagga tgaattccag attcaggaga agaaatcaag aagacttcac 180
 aagggaagta ttgaaaagat ttgtcaaaag acaaacatag cacagttttg tttttcaaaa 240
 gagtttttct caaaattttc taagttacca gagtttttac tctctagtaa tcaattacca 300

gtttectgtt gtcgattacc agtggcatag tttgatttcg aaagctttca actaaattcg 360
 caacgggtcca attgatttca aaatgggtgta atcgattaca agatattggt aatctattac 420
 cagtgtatc 429

<210> 16075
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16075

agcttgctcg tgatgggatc caactttcgc cacaatactt atctttatta tattttggac 60
 agggacagaa aatggatgct atgccctttt gctaaacgta attntaaata ataataataa 120
 taatataaaa agttacatat tacattttat ataaatcgta ttccaataaa cttgtttcca 180
 aattttaaga gaaacttact taagggattt agagcattat ttcatgata atctttatat 240
 gagttattta attttttttc ttattgaaac atgtgacatg gcattattta tataaacaat 300
 cgttatttaa taaatttata ttataaataa aatatttttc aaacataata actcataaaa 360
 ttaagttaat taattatttg agccatttta acatcagaat aaatntcata caaaatattt 420
 aaatttatgc aaaatt 436

<210> 16076
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 16076

tgtccttggt ttagacatga tttatacatg atttattact tgtttgattc aatttgggca 60
 aaattggacg agggcaagtg tgatttcgaa aatctgcact attatgcaga attttgctgt 120
 tgaaatgtgc agcagaattt tggctttgtg cagaaaatga tgtgtatttg ctggttgtgg 180
 aaagagtagt atagattggg ttctggatgt tttctagcag atcccaatgg tcacaatgta 240
 gatttatgta ctatggacct ccagtaaaat tttcgagtcg atccaacggt taacgaattg 300
 gaacgaagag aatgttactg gggatattga gtaaggaaag ctacggcatt ggtttgtgtt 360
 tttgggcaga gttttctgtc tttgccctgt tttcttggtt ttgatagttc atgatgttg 420
 gat 423

<210> 16077
 <211> 515
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16077

gagatgcntt gagctgacgt ctcactnctg ggcgatnctc tcgncccgtg atacttataa 60
 tccagctgcg cgctttttat ttttccttaa agagatctat gaaagataaa gcggctttaa 120
 gaaacaattt ctgctccgaa tatgacaacc accgttttat gaatgctgaa caccatcagc 180
 actttcaggc catcaatgga tggatatttc tcttggagcg acacgtccag ctcattggacg 240
 accagtatac cgactttcaa gaagagaaaag ttagcccgcg gtggacatca ctgggttacc 300
 ccatggccaa gttctaccca aacgtaattc tcatagttaa tgccaatgca tggcctatat 360
 acgaagactt gccagatatg cgatcctatg tgaggggtca ctggatatct ttcgatgagg 420
 aagctcctca ccactntctg agataccctc taatgcttta agaggctcta gaatgtgaat 480
 ttgcctaaga agaaccgct tcaccgattt gatga 515

<210> 16078
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16078

tttcgtaaaa cttatggtaa aatctgggac ctatccatgg tagaagtctc cacagagacc 60
 attgcctccc tcgccagta ttatgatcag ccgatgaggt gcttcacctt tgggaacttc 120
 catctatcac ctatggtaga agaatttgaa gagatcctag gatgccctct aggggggagg 180
 aaaccatacc tcttcacagg gttctatccc tcattagcta gaatttccaa gatagtccaa 240
 atctcggcgc aggaattaga ccacaggaag caagtcgaaa atgggggtgg tgggaataccg 300
 agaaaatatt tggaggcaaa agcaagaatc ttggtaggta aaggcgagtg ggccccgttc 360
 atagatattc tcgcactgtt gattntcaga ggagtcctct ttccaaatgt ggatgggttg 420
 gtggacctg 429

<210> 16079
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16079

ttgcttgatt tgtgagttga ntttagcctt agtttcactt tggttattag tcaattcatt 60
 caaggaaact tccaaagaat aacgtccaat caattntgta ttntatatta tttaaagata 120
 ttttgactat tttattatta ttttgctttt tttggtttaa cggagggttac agcgtgaacg 180
 atcaattaga ttttgtttta acagtgatta aacgagatta caacacaaat gatcgggttga 240
 aattcatttt atcattttatt aggtgagaaa acgacttaca cgatcgggtta aagctcggtta 300
 aaaatggaag agaagaaaac cggacatgaa caaaatgaat atgatagcta aaaaacaaga 360
 gatgaattga aagcatcgga ttc 383

<210> 16080
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16080

tcaacttaaa gagagtagtt caggcttagc gcaacatgcg cgctaagcac acttccaagc 60
 atttcaaaaa caataaagaa ttggcactta ggcgcacttg cgcctaagcc catctcgtga 120
 aagttcaatt ccagaatgga tctgtggcctt agctcaggac agcgcgctta gtgctgctac 180
 aataaatttt tccagagaag aagttgcgct tagcgcacatca tctccactaa gccactgct 240
 tgaagtttac ttctagtga gatgttaggc ttagcgcagt gatgtgcgct tagttgaact 300
 attcagtcaa ctagtcaggg gtctaagcgc ttagcgcgaag agagctcagg cttagtgcgct 360
 gaagacatgg cgcttagcgg atggacaact ganaaaattn tcaaagtctt ttctgtccat 420
 ctcttcac 428

<210> 16081
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 16081

tagcttcaac attcaattnt gagcgttntg atatattacg atactcaatc ggacatctga 60
gtaaaaagtt attgtcgttt gaatttgctc agagattcgg tattccattt cgagcatccc 120
gatatattac gggactcaat cagacatcca agtaaaacgt tattgtcggt tgaatttgct 180
aagagcttcg ataatacaatt tcgagcgtct cggtatatta cgggactcaa tcagacaacc 240
gattgaaaag ttattgtcgt ttgaatttgc taagagcttc gataatcaat ttcgagcgtc 300
tcggtatatt acgtgactca gtcagacaac cgagtgtaaa gttattgtcg tttgaatntg 360
ctcacagctt caacattcaa tttctagcat ctcgatatat tccatgactc aatcatacat 420
ccgagtaaag agttg 435

<210> 16082

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16082

ttgagcaaat tcaaacgaca ataagttttt actcggtatgt ctgattgagt cccgaagtat 60
atcgagacgc tagaaattga ataccgaagc tctgagaaaa ttcaaacgat aataactttt 120
tactcagctg tctgattgag tcccgttaata tgctgagacg cttgaaattg aataccgaag 180
gtctcagcaa attcaaacga caataacttt ttactcgggt gtctaactga ctcccgatgat 240
atattgtgac gctcgaaatt gattaccgaa gctctgagca aattcaaacg acaataacgt 300
tttactcgga tgtctgattg agtccagaaa tatgttgaga tgcttgaaat tgaagactga 360
agctctgagc gaattcaaac gacaataact ttntactcgg atgtgtgact ggtcccgtta 420
atata 425

<210> 16083

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16083

agcttattat atattgatac gctcgaaatt aaacgtcgga aactctcggg aaattcaaat 60

agccataaat nttcacacgg atgtccgatt cgggcgtata atatgtcgag aggctcgaaa 120
 ttgaacaatg gaagctcttg agaaatttaa atgggcataa cttttcacac ggatgtccga 180
 ttcaggctta taatatatcg atacgtcga aattaaacat cggaaactct caagaaattc 240
 aaatgggcat aacttttcac acggatgtcc gattcgatcg cataatatgt cgagaggctc 300
 gaaattgaac aatggaaact cttgagaaat tcaaattggc ataacttttc acacagatgt 360
 ccaattcagg cttataatat attgatacgc 390

<210> 16084
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 16084

tgaatcggac atccgtgtga aaagtatatga ccatttggtt ttcacgagag cttccgttgt 60
 tcaatttcga atgtcactat atgtgatgcg ccaaaattgg acattcgagt taaatgttat 120
 gaccatttga atttctcaag agcttccgtt gttcaattct gagcgtctcg ttatgtgatt 180
 tgtctgaatc ggacatccat gtgaaaagtt atgaccattt gtattttctca agagcttccg 240
 atgttcaatt tcaagcctct cgacatatta tgcgcccga tccgacatcc gtgtgaaaag 300
 ttatgaccat ttgtatttct caagagcttc cgatgttcaa tttcaagcgt ctcgacatat 360
 tatgcgcccg aatcggacat ccgtgtgaaa agttatgacc atttgaatat ctcgacagct 420
 tccgatg 427

<210> 16085
 <211> 324
 <212> DNA
 <213> Glycine max

<400> 16085

agcttttata agaaagtga gtcaaaaact tttaatgttg gagatttagt ttggaagggt 60
 atcctgcca tggatagtaa ggatcgagcc ttgggcaaat ggtccccata ttgggaagga 120
 ctcgtaaaaa taattcatat ctattcgaat ggtgcttatg aattagagga attaaccctt 180
 cagaaacgta ctttgagtat aaatggtaaa tatttgaaaa aatataaacc aacattgctc 240
 gaagttaa atagcatagaa ttacagaaga atggaacata aaatgggtata acagtaaaat 300

tgccacaaag gcatgtgtca aatt

324

<210> 16086
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16086

tgtccaatga ggtgacaatg aanataccta gtgttactat ctgatataca gtttttgctg 60
ctcgttttat tgtcaattcc aactgcatca atgcatcttt aacaagcata ccacgaacca 120
gagcagcaac caagttgacc ttctttggac tctaaaatac catagaaaac aaggatgtga 180
aaatgtgcaa ctagtcagat attaatcaga tccttcttaa accataaatt aaggcatttt 240
ccacagcaaa ccagggaagg catttcaatg gctaaaaaat tagatgcaa cttttctgca 300
aaataacatg ttggttaaaa cacagaagtt tcttagcaag tagctaggca gtggcaccac 360
ataaatgtaa caaaacattg taattcttca atatttatgt tatggctaag ctgaacatac 420
ttgtgataat acttatg 437

<210> 16087
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16087

agcttatact aagttcagcc taccatcctc agtcagagga tataccgaag actgctttta 60
ngatccgtta tggtcactat gagtatctag tcatgccctt tggatgact aatgctccag 120
gtgtgtttat ggactacatg aatagagtat ttcaccctta cttgatagt tntatggtag 180
tattcataga tgatattttg gtatactcta agactagaga ggaacatgaa gaacacttga 240
ggattgtgtt gcataccctt agggaccgac aactntatgc taagctgtcc aagtgtgagt 300
tttggttaga gaaagttagt ttcctagggc atgtgatatc tcaagggggg aaacctgtag 360
atccctctaa gatagaagtc gttcttgagt gggagagtcc taagctnttg tgtgggatac 420
ccaatgtaag catagttt 438

<210> 16088

<211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16088

ttgagccaaa atcctgactc accataaacc ttgaccctgg tgataatgtc aatccttacc 60
 ctcggaagca aaaaagaata gaagggaat ttccaatcaa agaaaagaga aggaaaattt 120
 ccaatgaaag aggaaaaaag aaaagaaagg aaattcccaa tcaaagagtg ggagaaagaa 180
 aaagaaaaga aagaaaattc ccaaccaaag aatgggagaa agtaaaaagg gaaggaagct 240
 cctggtcaaa gaaaccagag aggtctttgg accagataat atctgaacag tacagaattg 300
 tcaccaaagt aacaaaaagg aaggaaagga aaccacgacc tanaatgggtc ttctcccttt 360
 aattaccaac caaaatcccg tgcgctagcg accctttttt ctgccccgc actanaaaaa 420
 aaaa 424

<210> 16089
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16089

agcttcttag tttcagatga tgcagctgag tttgtagcta cctcatgcac tcctctaattg 60
 attataacat catttctggc gctaaaactgc tgggagttgg aagccatctt ctcaattaaa 120
 tgtctagctt caataggagt catgtctcca agggctccac cactggcagc atctatcata 180
 cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg ctctgaaatc 240
 tgatggtgag ggcaactagc acatagtttt ttaaattctt cccagtattc atacaggctc 300
 tctccactga gttttctaata acctaagtta tccttcctga tggctgtggt cttggaagca 360
 nggaaaatgt tttctaagaa tactctctta aggtcatccc agctcgtgat gaaccttgga 420
 gcaaggtaat ac 432

<210> 16090
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 16090

aaccaaagtc tcaccactgc tagaggagaa gcctttatgt tatttcatat aaacctcctc 60
ctctaaatca ccattaagaa agcatgtttt cacatccatt tgttgcaact caaggatcaaa 120
ataagcaact aatgccaaaga taatacgaag agaatctttc ttagatacag gagaaaaagt 180
cattgtgtaa tcgattcctt ctttttgagt aaatccttta gcaacgagtc ttgccttgta 240
tctctcaatg ttgcctaag aattgttttt ggtcttaaag acccatttac aaccaatggc 300
ctttgcccta ttaggcaact ctacaagggt ccaaactcca ttgctctgca tggaattcat 360
ctcatccttc atggaatcat accataaatt tgactcttta caactcatgg cttaatcaaa 420
atatttgaga tt 432

<210> 16091

<211> 408

<212> DNA

<213> Glycine max

<400> 16091

agcttgcaga agaataaagt tcaagggtcaa gggaagcaga tagtggaaga aagaaaatgg 60
agaataggaa taagcggaag agagaaaaat ggagaaaagg aaaaactgaa tattatgttg 120
gataatgctc aaatgagcaa aactcacatt tacatgaata cattgtgcct tatatgacta 180
aagctagtaa gttgttacat aattgggttac aagaataact agcttgtaac taactaaaac 240
taactaatgc tagtaacact agtaatctat atctctaata caatgctcaa acaaaccata 300
aagtaaagtc atgaattcag gatccataca tattattctg gtggcggtg aagacaatga 360
catctgcacc cagtctcata ctaccagtct tgaagccatt tccatcta 408

<210> 16092

<211> 374

<212> DNA

<213> Glycine max

<400> 16092

tgtatctttt atgatgaagc agctatgaag tatttttcac taggtgaggc tagctgcata 60
aatcaaaaga caccattggt ttctatcttc aactaaacc tttgctagtc catttagata 120
aaatataaac ataaaaaaaa aatccagggt ttcattgtcta ctctagtcac gatgatcagg 180

ttttgggttaa tgaacacaaa ataactctga aattttttga gagaactaaa taagaaaaat 240
 cctaacaata aggggaaaaa aataattaag aaaatcaaga gatgtacaca ttacagatgt 300
 acaagaaagc aggatagtga gaccctaga tcaacaaaa aaaggatatt tagatttcca 360
 aatgttttta ttat 374

<210> 16093
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16093

tatcttgtga aatatggcat aacaaatatt gacgaatgtn tgtttatggg tcagactatt 60
 ctagagcaat tggaaggcct tcttaggcat aaagcanatg ccagatatgt gaactatggt 120
 gcagaanagg acaaaaataa tggtaattha tatgattctt cacttttagc taataataac 180
 atggagcttt tctctgagcc tgagcatgct aagggtgttg gtcagtgtcg taagctttca 240
 aatgagagtg ttgaaagcga tggaagctca atacgaggta gtgacatgtc taattttggg 300
 attccaagtt catctggtga tggctctcat gaccttctg gatctgcttt ggtttcaaga 360
 gagacagata ttatgggcca cacanagtcg aagtctactg gtgaatactc aatagtcctt 420
 ccactagat 429

<210> 16094
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 16094

tagtgtagaa ctggccacca aaataacctt ttttaattta tgagttgatc aaaatgaaac 60
 cctcgtgcaa cataaaaaggc agaagcaaata aataattatt tacctctttt cttctctcag 120
 ctgctcatc acacttgaac ctgaatccat attttgggag cgccccacc ctgagaggtt 180
 tggcatcttc tgcagtagga cttacaactg gattaaggat aaaccataaa tacactgtgc 240
 cactctcagt aacaaactaa caacataaat aatataaaca aatccacatt agtccccat 300
 tgctctcac caccataaac aatgctcaac caggaaaaaa aaggatacga agaagattct 360
 gcttctcctt gaagattatc atggggatct ttcttcgata attgtggtct agtcttctcc 420

ctgtat

426

<210> 16095
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16095

agcttctccc ctaattntct ataaataggg ggagaagtga agtagaaaag ggttcagccc 60
cttaggcact tctctctctc tcgaaatagc tgaggaaaat tagttccgtg aagaanatcc 120
aagccgaggc gcttccgtaa cgtttccgtg agtaattacg cgaagattct cgaccgttct 180
tcaagattca tcgttcgttc ttcattttct tcagtcttca acgggtaagt acctcaaacc 240
aagcttttca attcattcta tgtaccctg gtgggtccaca ttntgtttca tgtattttta 300
ttctcgtttt catttacttt ttataccccc ttttgacgtg cttaagtcac ttatttaagt 360
catttctcgc ttaatctaaa aataaaataa atttccaccg atc 403

<210> 16096
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16096

ngagtaaggc acccctttgg tttgaagacg cgttcttggt gagaggcatc cacataaagt 60
tctccacaga aaatgcttta tcttgggagg tatacgaaga ttccatatag tggaccagct 120
tccttgaact ttgagagctt ctttgttcac catagtctcc attaaaatat gataatctga 180
tcaaaccgag tatgtcccca tggtactaac tttcaaaatc aaaatatcag aatcatgaag 240
attgaagagt ggcatcatct ttatttcttg ggaatcttct ttattgaaaa attgatcagt 300
aacctcaatg ttccaactat tgctttcaac atcaataagc gaatgtactg tcaaatgttc 360
aagaccaaaa agaggtaagg acgaaacata atacttatct ttattctg 408

<210> 16097
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16097

agtcttgttaa caaggaaaaa taaaggaaac aggaacatc ataattcata aggagttctc 60
tgaccttcgc caattcaata gtgctcagat ccattccgat tctggttgta tagaactccc 120
tagtcataaa gtcctttcag tatatgaatt tgtttgcaaa atttccagca gaaaccaact 180
tccgaaatat ataagaggag gctaaagata tgtagagttg ctctgcata aatttagaac 240
ataacaagca gttcaagcct caagctagga agtaaaagaa aaattttaat tctgatctag 300
agcagaataa ctaacatagc atactgtgct acattacttt cgaggcttca attactcana 360
tcagggttaag ttcataagat agatatacaa ccagtatata ntgttataat acatcactct 420
catanaaata ttagcattc 439

<210> 16098
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16098

ggaccttaaa tctcagcttg gccaggtatt catgtttatc tagcctttga gtatgtccat 60
tttgatttat ggggaccatc tagaggaaaa actcatggtg gaagtcata ctttctcacc 120
atcatagatg atttctccag aagagtatga ttgtatgttt tgaaaaataa gtcagaatct 180
tttcaaaaat tcagagaatg gcatactctt attggaaatc aacttggtag aaaattaaaa 240
gttttaagga ctgacaatgg cttggagttt gtttcagagc agttcaatga gttttgcagg 300
aaaataggca tcaaaaggca caaaacagtc cctcacacac cacaacagaa tggtttagca 360
gaaaggatga ataagaccat tttgganaaa gtgaagtgca tgctactaag tgcaggactg 420
ccaaatacct tttggggaga a 441

<210> 16099
<211> 270
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16099

agcttgtgcc acctacatag cataggtttt tcatggttga tcaacctaag ctgtggntgt 60
 aaatattata aantttacat acccaaatta aacctataag ttagaggtga ccaatgagtt 120
 acctattatg atcagtcaaa cttactatat gtttcttcat taaatcttaa tcaattaatg 180
 tgatggctaa aaatattggt cgtaaagctg attatccaca tctaggacta ccgacttgct 240
 caccaagcca taaggagaag aatcattctc 270

<210> 16100
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16100

ntagaaccac aaacaaaaaa ttatttggtta ttagcttttt gtaaaacaaa aaatatgaca 60
 tatgttaata aaaaccattt catacactct gcaaaaccat ttcatacagt atttgtagtg 120
 tactctcaat ggaaatacac ttatgagata acctctaata tttttttatc agtgaaaaac 180
 tctataaaaa aaggtaaaac caaaagacag aaactccaag gaccttataa gtccaatcag 240
 ctgagcccac tgagcatcaa cagtactcca ttgatccccc tcaataacca aaaaaatatg 300
 aaatacggca tgtgagaata gggtcagaga ggataacatt agcacagacc atgatatcaa 360
 agatgggtga cagacacgaa atcttggttg caaaacaaga aaaaagattc actacataaa 420
 taaaagacat aac 433

<210> 16101
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16101

tctagcttaa gaatgagtc gcgaagatta agaatgctta aagtttatgt gagaatattc 60
 aaatgttcaa tccttttaca agaaagacaa aaatagaagt tcgtatatga aatattcaaa 120
 tgtttcatat atccttttaa atgatgttga agtggtttaca tgtaattatc cataatatcc 180
 tgtttatcta ttttttttca tactactttt gtactcaata tagttctata tatatatata 240
 tataatttac tactatcgat tctttntata agaaacaaat gatacttcaa aacatttcat 300

gcatccatga cagaagatta aaggcataag ctagaccatc caaacaagaa tacaaagttn 360
 ttgtgcttga tc 372

<210> 16102
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16102

ttcaactttg agcctgagca agttgaatct tattctgctc acaggctaata ctgaaggggtg 60
 ttgtgttgaa ggctangcat atagctgaag cagctttgtt tcttgcttct gatgatgctg 120
 ctgtttacat cagtggtcac aacttggtgg tggatgggtg gttctctgtg gttaatagaa 180
 gttattcttt cacaccagct taattacatg tagagccaaa aaaacatagt tttgtggctg 240
 gttggcatta atttccttag ccttcatcaa gttgagaaca tgatgatgct atgcagtgcg 300
 tcaaattacc ttgttactgg gacttttttt tcatttgcac tctactaata attctgcaat 360
 gtctcttctt tgtttgcatt ttcaaagcat acattcatca accttgtctg cttgtgactc 420
 aaa 423

<210> 16103
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16103

tgcttttagac cttttagatgc atgttggcat cccctgcatt cttgttctag tcagcttcaa 60
 acttattaca agaaaaatga cctataccta cagacaaaaa ctgtcactat aaataaaaaa 120
 tccgtaggta aatgtatgat agactttgtt ctacggacgt tttttccgct aactttgagc 180
 gacatataat gacggctaata tgtctgtcac tataggtttt acctactatg tatagtgtgt 240
 aggtaaaagt cattaacttc tacttacatc tcctaactgt aggtaaaagt ctttaatatg 300
 tacatatcat cttcaactgt aggtaaatgt ttagatctta gagaaagctt ataacataca 360
 taattgaatg tgggcagtgc agcaaaccac tacctctctg cttcttctga ctanaaaaga 420
 attatataaa ctcatg 436

<210> 16104
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 16104

tatcaccctt actgatgatt gaaaaaagct tttaatggaa gtcaagagca tgatagtgca 60
 acgactatcg acaatgttcc ttgggaaaat gatcaagtga aggtcggat taaggaagtt 120
 tgagatgttg atgtctgcac tcctgtaccc actcaagagg ttcaattagt ggagtaggca 180
 tttaacacct tccttgcttg ggcgacacat cttgtgaaac ctttttcaga acaggtattt 240
 catttagttt tttaataat tattaataaa ggatttgta caaatcaagt tttagtgtc 300
 attcgcttaa tgtttattaa atgtgttga taaacaggta gttgcgggat tggcgaaacc 360
 tgtacatatg ttggatcctg acattgatcc cctttacctg atgacattga caatcttg 418

<210> 16105
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16105

tttcttttgg cactagccat tctttctggc actcgtttnt ggtttttcta gtccttttct 60
 tattatttaa ttgttgatc ccaatcccaa ttctatttgg ggggtagctt aaatggtaa 120
 gtagagcgga acggaagacc ctttgatagc atgtgacgcg aagtcctcaa gtacgaaggt 180
 gattagcagc ggagtgttcc ttaaggctgt cgtacctgct ctagtcttc cggcgtaatg 240
 ttctccgaag aatcggttca gtctttccct ctgtggctgc tacttcttta cttcttcact 300
 agtcttgaga ttntagccga gactttgctc aggtctcata gaaaagaaga ttccttcccg 360
 ctcttctctg aatggagaga atgagttcta ctctttcact ggaagctatc ttactaaaga 420
 gtggctctat cttt 434

<210> 16106
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 16106

ttgcctaaag ctatgagtcg agaaagattt gtatttgaca gatagcttac cccgctttca 60
 cggaagggt cgcttcgctc ggggagtgga ggggaaggag aggacagggt cagccgtcag 120
 agtagagtag tggagccaga aaggaaagaa tgagtagtac cagagagaca tgttacgaaa 180
 gaaggaatca ccaaccataa agaaatgtaa ctgtcctggg atataggaaa ttcttcacat 240
 cttctcttat tctctttatg gttacccggg aatgccctat ctaaaagtgg attattgtat 300
 gatagtetta tctttttcct tccccagctt gaagtaaacc catctctact ctcttctcgg 360
 agtttctactg tggaactaag gcatctactt cactattgag tgggaatccc ggatctctgt 420
 ctgaaag 427

<210> 16107
 <211> 328
 <212> DNA
 <213> Glycine max

<400> 16107
 agcttgtaga ttggctagac atgatacatg tcagggtttg gtttggttca aggataaaag 60
 ggatgccccca cattatttcc atgacacaaa tgcaaaaatg atgatttgga aattttatgc 120
 aaaactgggc atgcatgcac ctatgcggac actcaagtgt caaattttta tggatcatgtg 180
 atgctagggc tcaggattca tttctcttat tttagatcaa cccaatgttt ccaaaatatg 240
 ttcttttatc aatttgtgca ttcattcgag tccattttgg gtactcggga aaattttcac 300
 agcattcacc cttcatgtgt gcacacat 328

<210> 16108
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 16108
 taagataact tactggagaa gcttgtgtga gacaacttcg ttgattagct cgagtttagc 60
 tacgcacacc catctaaaaa ctaaactcac ctcttgaga agctagagct tagctacaca 120
 cccctataat agctaagctc accccatgac aaaaaggaca tgaaaatacg aaaaatatcc 180
 tactacaaag actactcgaa atgccctgaa atacaaggct aaacccttat actactagaa 240
 tggccaaaat acaaggccca aaagaagaaa acaacctatt ctactattta caaagaagag 300

tggaccaaac cttggcccat ggggtcaaaa atctaccgta aggttcatga gaaccctaag 360
gccttcttta tcaactctag cccaatgctc ttggagcctc ttgctcatgg ctctggtaac 420
tgggcc 426

<210> 16109
<211> 384
<212> DNA
<213> Glycine max

<400> 16109

atcccccaaa ttattgtacc aaactaccgc ggctccggcc aagctatctt gaaaaaagtg 60
tattaatagc ttctcatcct tagagtgtgc gccatcttg cgatagtaca tcttgagatg 120
gtttttggga caagttgtcc ctttatactt gtcgaagtcc ggtactttga acttcggggg 180
gataacaaca tcgggtacta agcaaagatc tgtcatgtct gcgaacgaat agtccccaaa 240
tccttcacg gctctcaatc tctcctcgag gagattgagc ttactccttt cttcagatgc 300
tgtgggcgga ccttcctggtg acaaaaactat tggttgtgtc gtgattgtcg caacctaccc 360
ttcgggtggga gggcgacacg tgac 384

<210> 16110
<211> 401
<212> DNA
<213> Glycine max

<400> 16110

atgcagctga gttgggtcgt acctcatgct cttctctaata gactatagca taattgctgg 60
cgctaaaccg ctgagagtcg gaagccatct tctcgatgga atatctggct ccagcaggag 120
tcatgtctac aaaggctaca ccaatggcat catatatcat acttctgtcc atattactga 180
gtccttcata aaaatattat agaagaagct gtcocgaaat ctgatgggtga aggcaactgg 240
cacatagatg tttaaactct tctcactact catacaggct ctctccactg agttgtctaa 300
tacctgagat atccttctctg atggctagag tcctagaagc acggaaatat ttttctaaga 360
atactctctt aaagtcatcc cagctcgtga tggaccatgg a 401

<210> 16111
<211> 389

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16111

agtctngaca aatataatta tctacttggt ccttcttagt ttcttgtata cacagcatgt 60
ctgctctttc ctttctaacc attcttctaa ccgccgcca ttctactccc ctcctaacc 120
cccttatggt gtatgtgata atctttatta ttcaggcttc ctgttaccga acttattggc 180
atcctccttg tccctcagct ccactctcgt aaattgtgac caccattgca tctcctccct 240
cacatgtaac tcccaaattc tgcgccatct cccattgtgc tgaggcttcc ttgtattct 300
cacttgtgtg gtggctatct ttttgcaa at ggggctgagt tataatctgc acttcatctg 360
gtgttattat tcattcctgt tcttctaac 389

<210> 16112
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16112

ggaggaaaag aaagagttaa aggaggagca cttaattgaa ggaatgaaag agggagagaa 60
gtggaacttt gaagtgtgtc tcataagact ttcattcatg aaagttacaa caagtgttac 120
agacgttata gcctaggtag cttcttgaga aacatccttg agaatcttcc ttgagaagct 180
ttcttgagaa acttccttga gaaatttctt tgagaagctt ccttgataag ctagagctta 240
actacacaca cccctcta at aactaagctc acctccttga gaaactttct tgaaaagctt 300
ccttgagaag attcctagag aagctagagc ttagctacac acacctctct aataactaag 360
ctcacctcct tganatgaga agctagagct tagctctttg tatcaagtga ccacagaata 420

<210> 16113
<211> 386
<212> DNA
<213> Glycine max

<400> 16113

atcttctcta caagaaataa agtttttttc aatagaaaac tctcaaaaac acttctagct 60
ttgtatctaa acaggcttat aatatgctta aattaatata gataaaatca taaatccatg 120

catatatgat atatccttcc ctttgtaata ttcttctatc tagggtttta ttatcatgga 180
aagaaagaca tagacttggt agccttgaag gttataatac ttcttgagtt ttttgtagca 240
tgaactagtt aacatatggt gatgcttctt ttcagataag tgtaggattg gatcagggcc 300
tcagaatgag tgggtatttct tcagccataa ggacaagaaa taccacaacag gaaccagaac 360
aatcgagca actacagctg gttttt 386

<210> 16114
<211> 420
<212> DNA
<213> Glycine max

<400> 16114

gctggacccg ggatcctcta agtcacctgc ggctgcagct taaactagta tgtggtaatt 60
gatgtgtggg agtgtagtt atatattatt ggagcttgga ggtttgtttg gtagaccgga 120
gtggagagtt taacatttaa ctaaggacaa cgaatttcaa tactcatgta atatagtagt 180
atttggtgtg ttatcattat ttttcgataa tcggatattt cttaagcaca ctaggtaggt 240
tttaagacta aagataccta gcgcacataa aaatgcctgc gagtcttagt gattatgata 300
tgcttttgat gcacgagatt tgattctttg ttcattatgc atcccttaat caaacacgct 360
tcctcaacac ctgacataaa gcactcttgt ccgttggttt attaaactgc aacatggtag 420

<210> 16115
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16115

taacaaanat ggtggaggga gtcctaccac acggtttgcc aatctctcga attctgttaa 60
gtagtcatta acagaaccgc gttgcacaag cttgaataga gctcccttgg gatcgtcata 120
gaatgttgga gcaaaccgag attccaaggc ttgaagaaac ccttgccatg atgttatgaa 180
gccattgctg aacatccact ggtaccagct gagggcggcg tcgtcaaggt aaagtgaggc 240
tacggtgatt ctctcttctt cttacgtggt ctgatttgaa agagttggtt aattttgaag 300
atccatccaa gaggatcgcg accgtcaaag cgcgggatat cgagcttaac ggagttacgg 360

tggtttctcg agctgtttga ggaagggttg ttctggtgtg catcacgcat cctgaggtgg 420
tccaagatcg aatccaccct 440

<210> 16116
<211> 379
<212> DNA
<213> Glycine max

<400> 16116
atcttgaggg attagtaggt taaacttaaa tagcttgta agcatatcat tatatggaat 60
ttgctcaggc catttgttcc tgaaattgtc aaagtcctta taggtagtgt attcggaagg 120
atgtgtatat gtttgatat agatgttgtc ttcaactgca ccttgcaaaa gtggcctgaa 180
acatagccgg ttttgaacct taacaaatga tcattgcaat cctataatgt tgtttgtgaa 240
ttcactctga ttttcgtatg ttaatggaga acctatgtgt tttagaagaa acttttgttg 300
attctgaagc actgaggttg gaaaaggcta ttatattgca actaggaaaag gttggtgctc 360
ctgagttatt caatgttta 379

<210> 16117
<211> 415
<212> DNA
<213> Glycine max

<400> 16117
tgcgctgagt tgatccatac atcgcgctct ctctcatga cgataactta tatgctggcg 60
ctttgacgct ataaaacctt atattaaaaa atggtgctag attcaatccc atgtttttgc 120
tataatgaca aactctattg atctatactc tgacacccta tcatggagga aatataatga 180
aagcatgagg gaacgtttat gctatgcatg acacaaatgc actttacaga cacaagagcc 240
aggaagatcg tgtcttctta ctcaacagca ttgggcctca tagttcattc acagtcatta 300
ccatggtgcc ccatgcatgc atttaagaag gtgattggac cttccgattt cccgtgacaa 360
aatgacaaga caaatgcaag gcatgagtga tgacacagta tggatataca tgcatt 415

<210> 16118
<211> 361
<212> DNA
<213> Glycine max

<400> 16118

ttcttggtgt tggatgtttt ttttataaaa aatgtccgac aacggttaga ttcttttgac 60
aaaaacgcct tactctttta tctctcagat ttatagcacc tgtgaacttt gactggattg 120
agaatttggc taggtcttgt tggacgagta acgtgtgaca ttgagcctag attataataa 180
atggaaacca agtagcttcc tgtcaaattc aaactcgttg atgaaaaact atggccacat 240
taattaagac tgtttacaag ggcttttgat ttttagaagc tgatagttga agttgttaag 300
agaatctaag ctgcgtcaga ttctgcaaat cctgtgacaa aacaacagca cgagggtgacg 360
a 361

<210> 16119

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16119

tatattgtta ttactgggga ttcagcacac atttatggct tgcgtcggng atagaaagga 60
atcagaatgg atggatagga taatatcaga aggagccatc ccacttcttg aaccagataa 120
ttgttcaa at ggctgggcta cccctcctgg tgatgcattc atgggttagag gccctgagta 180
ttttacaaca aggggttaagg ttccagctgg tgattatatg ctcaaacctc tcggttttga 240
ttggattaaa agttcagtga aaattgcgga gatattaaag gatccaaata gtcgagttag 300
gaatgccatt gataacgagt ttccagaagg tgataaaccc tttgtgtggg ctttcaatct 360
tcaagtccca accaaggata actatagtgc cattgcatat tttacaacca aagagtcagt 420
tcttg 425

<210> 16120

<211> 370

<212> DNA

<213> Glycine max

<400> 16120

aggaagtgtg cgaaggagaa acttcctgcc tctattgatg accacagaga ggtacctgga 60
gatatgtcgc gggggtcacg agaccttggg gacgtccagt ggggtgctat tgcccaaac 120
caagcttgtc caatcccagc ccagcccga catagtcgga cagagagaac ctgtgatgta 180

cctaatacagg cgagctcctg gctgacaaca tatatgagga acaaatacct caaagcaagg 240
aggcttgtgg tggctggcca gcggtgtgaaa cttgattgag atgtgagata tgggcgtctg 300
gcaatcgact accaggggag aggtatcgat tacgaggctt aataatgagg acaggaagcc 360
tagatggtct 370

<210> 16121
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16121

agatgatttc tcaacctcaa ctgccatcga nccacncta gnannaccgg ccganannnn 60
gaanatttag tggtagagggt ttgntaaggg ggagttatga aggggggaga ttatggtagt 120
gaggatataa aaagaataaa agatgaaaga gnaatgaggt tagagggtggg tggttagatg 180
tgaattttgg taatatgagg aagggggaat atggtaatat aatattaggt tgaaaattga 240
ggataggagg ttaagatggt ttatggtaat agattaaata ggggtgtaat atattaagag 300
gtttgaaaat aaagtaagga aatttaagga ggggtgtgta atagattaag aggggtgtgtg 360
aatgattaaa aagatgaatg ggtagtggt aattgattat aatggatgtg taattgaata 420
gagaatgtat tattggatat ttgatgtgta gaaggatga aaatt 465

<210> 16122
<211> 478
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16122

atgaacctga ttgctgcatg cagaccnngg cgcaatngca ctcggaaccg ggatgctata 60
gaggcgacta ggcaggcatg ctattcttat tcccaggagag cagggttaatt atatgatgca 120
acaacgctcg cgaaaagact gagctcacta taaaggcgca atcatttcgt atggagcatt 180
ttcttgagca agttaccctg gcctggagct caaactacat tggtagagacc caacgagggt 240
actccgctg agcccacctg tgcgggttga taccagcca actaaccac aatctctatt 300
ggtaaagcca ctatcttctc ttgagcgtga aatacgccc ccattctcac ctctgattat 360

caattccgat gcaacattgt gatgaaacac cagaccactc tgattcacca aaaggagaaa 420
 cagctgaact tctactttc ctagtaggag gaaattctga ttcgacatct ggagaact 478

<210> 16123
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16123

acaanaaact cagcttcagt gtcataact tttattgctg caattttgca acaggggagg 60
 tgatctggga atacataacc caaactctgc aaaggtgtag atttctgatt catggcaagc 120
 tgagcactag gtagaccacg catacgtttt cttcaagct tttattttca tagatgaaat 180
 gaatgcgtgg ccacctcatg gactctctaa gacaatacat cattttcttg ctgaattgaa 240
 ggagatggaa gccatttcta atcaaattcc tagcctaacy gggtcataac accaaagctc 300
 accctggaga taatcatact ctctcatatg ctagtctca ta 342

<210> 16124
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 16124

atcttattga ggcacttaat gttttgctg agtggtttta tccaatcact tatgctttct 60
 tctggagaga tataatataa tttctgatgt tgtttaattt tcagtagagg ttcataactc 120
 aattgtttga actttgtggt tttacactg tgattttaga gagggagggg gaaatgattt 180
 ctgttgccac tttagaatt tttggcaaga gggttgctga aatacccttt gtggctacca 240
 cgggtgcagtg taaaaagatt gtgtgacatt ttaatgaatg agattgagaa gcagttgact 300
 tacttggaag tacaggagaa tgttctgcct tgaagtttga cagttatgaa aaaggacacc 360
 aacctgaatt tctca 375

<210> 16125
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 16125

tctaaacact cactgccttc tcaagataat tcttcccacc atcatccaaa acattgttat 60
atctgacatg ccgcttcagc ttctcacact ggataactgt cgcagggtgc catgaccta 120
gaaatcccaa atccacactc ctcacctgca aaattccaaa actttccaaa tttcaaaaga 180
atcccagata aaaaaaaaaat cactcactca tgctccctac taccaaagca agtgatcaca 240
agagaaaaat ccaaactttg caaaccaaaa acgacaccgt gttatggtag cctaaaaata 300
gagcgacaaa tcaaaaaaca ctttcacttt gcatgcaggg tggcgaanaa ggggaattgaa 360
taacgaaaac gacaatgtca tangtaatgt gcctaaaaaa ctatgaaacg acataagacc 420
caatc 425

<210> 16126
<211> 352
<212> DNA
<213> Glycine max

<400> 16126
ataacacgca caacctgcaa gagatggctc ataacaggcc aatcataact atggagcaat 60
ttcttgagca aggagcctgg ccggaagcgc aatttcatt ggtgagacc aacgaggcta 120
ctccgcctga gccacactga gcaagatgaa ccagagccaa ctaaccaca atctctagag 180
ggaaatccac tatcttctct tgagcgtgaa agagatcccc catctccacc tctgaatatc 240
atcacgatg catcatctga tgaagcagct gcccctcctg atccacaaa aggagaaaca 300
ggtgaccttc ctacttcctt agtgggaaga atttctgatt cgtcatctgg ag 352

<210> 16127
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16127

tagaaagtgt gcttactaat gttagaattt ggatgtangg attaagtggg tctaacttat 60
gtcttatatg tcatcaagaa aggaaactct ttccatctt ttttgtgatt gtatggatac 120
taagttgatg tggcaatctt ttattcgagt ataaggttca atacaacatc aattctttca 180

taaccaattg tcgcaaccta cccttttgcg ggtgtcgcaa catgcccttt tgcgggcgag 240
cgaaggcgag gctcacgggt gcgctttcca aaggaggaaa gatgcgcgga gtcgccacca 300
acgtttattt gtgggaaacg tcggaaaaac cgaaggaaac cggtcgaaat gaaaattcta 360
agttcgggag ttgtatttac gtttcaagaa ggtattagca cctcttacgt ttgtct 416

<210> 16128
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16128

atctntatcc tcagatccct cttgttggac aagacttaga ccaaacaaca ttattgtaac 60
aacatattta aaacaaaac ttaatccgca aatccctctt gtaagactaa gtttcaattc 120
tgcttcattc aagtcttaag gcaacaatac attttccaat gttaaaatca cctaactagg 180
cacacaaatg gttgatcaga ccaagggcat acaaaattta agctctgaaa gaagcattga 240
acacaagaaa cacaatcaat tagatattaa aataattaca ttagttgctc attagaaatc 300
cccaacaagg gtgttttagcc aacaattaca aaagaaaccc taacaataat gagcttacia 360
agcctaggta tctctacaaa agctactcat ct 392

<210> 16129
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16129

cccatggaag ctctaatat ctcccacact ttatggggag ggtcattctt ggtatggcctt 60
gattttctta gggteccatt ggacccatt tctaccaact aaaaacccta agaaaactat 120
attatctaca caaaaggtag acttctctat atttgcatag aggggtgtttt tctaaggac 180
tgaaagaact tgctgagat gtcctaagtg atcatctagg atcctactat atactaaatt 240
atcatcaaaa taaacaacta caaatctacc tatgaaatcc ctttaagacat gatgcataag 300
cctcataaag gtgcttggag cattagtggg cccaaaagca tcaactagccc ttcatacaaa 360
ccaaacttgg tcttgaaagc ggntntccac tcatcaccct ctttcattcc taattggtga 420

taaccacttt ta

432

<210> 16130
<211> 391
<212> DNA
<213> Glycine max

<400> 16130

tggtttttaa atttaaattc aaatttctaa aagttgctac atatagttta aacttctggt 60
aatcaattac ataccttggtg taatcgatta caggctttta aattcaaatt caaaattttc 120
aaattgtttc ataaatcaat ttagccactg gtaaccgatt accagagagg aaatatcata 180
tttttgagaa gataattggt cttaaaaaac ttttgtaaaa tattttcttt agccaaacct 240
aggtagcatc aattaaggaa ttctttctaa gatcctaact aagtacatcg ttctttctgc 300
atttctgaat tcttgacttg aatcgcgctc atctttggca tcatcaaaac ttcatatcat 360
atatgcttct acaacatcaa atagtgcact t 391

<210> 16131
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16131

taaaggggtg tgggctggga tgtaagcca taggatttat gctgatcaaa taaagtcaat 60
agaacccaaa atcttattta agaacaacaa agctctttgc catttagacc agaaaggagt 120
tggtcggtta gatgtattgt ttaaggaact gctttccatt tcagtaataa tttcatctta 180
ttttcgcttc aaatcctatt tacaaatatt tgtaggttaa taaggaagaa aaaaaatag 240
gaaacagaat attcttttaa acatagaaaa gaaacataat ctgaaaagat acatagttaa 300
attagaaaaa taaaaaataa attgataggt agacagagca aaatgcagcc ttaaaattca 360
tcataagaga aaacaataaa ctaacttcag ataattntca aatgcctatt aaatttagaa 420
ttataatata tgcattgcaa g 441

<210> 16132
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 16132

atcttgagc atgcttatta catggagtag atgcaaccaa aataaagctt cattcaaatt 60
 taaaattgtg gaggtttgac cgagttatgt tcaattntcc tcatgtcagc ttcatggga 120
 aggaaaataa cacattacta attaagttag ttttcttgta agattcagtt agaagactaa 180
 ttaatgtggc accctctacc cgcacataca tatagtgaag ggaaacatag aatagtggga 240
 gtaacttaaa aagatttact tcacaattca atataaaact tctcaacgga gtaaagggtc 300
 acattcacc attaaccaag ttaaaactta tcggtgaagaa tataaaaaca tgtttcggct 360
 ccaaacaag accataccgg tattataact a 391

<210> 16133
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 16133
 ctcagcttat cctcagatcc ctttgttggc caggctcatt tatacagccc ttctagggtt 60
 agactaactc aaactaagct tcattctcat atccctctta ttggactaga cttagcttac 120
 atagcttacg aaagtttaga ctaatttagc ctaagctttg tcctcagatc cctcttggtg 180
 gactagactt agaccaaaca gcattattgt aacaacatac ttaataccaa aacttaatcc 240
 gtagatccct cttgtgagac taagttgcaa ttctacttca ttcaagatct aaggtaacga 300
 tacatttctc aatgctgaaa tcacctaact acgcacacaa atgggtgatc agaccatgaa 360
 catacacaat gtaagcactg aaagaagcat tgaacacaag agacaccttc aattagatat 420
 taaacgtatt acatc 435

<210> 16134
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 16134
 ttttttaggtt tggcttgcaa acacatcttg aaggagctca acgatctaca agagtatcct 60
 tttacgtcat gcagataagc ttctcaatcc tttttcttat ttttttctct gtcttttttg 120

ttgggttgta tgtaacaaaa actattattc gtgattatat atttatatat ttattgcaat 180
 gtgttatcta atatatctaa tgtaaaggag tagtatatgg agaaaagatg tagatttgac 240
 cgctatgata gagagaaaaac aaataaaaaa ctctctctgg tattttttga ttattataaa 300
 gatttgggac ttgaaaaaaa atctaaacac aaaataacat gtagatttga ttgctttgag 360
 agagagaata aaataacaaa ctctgtct 388

<210> 16135
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16135

ntntattgac aatttgcata aatatataaa attttttact cgtaatgttt tataaaatga 60
 tgttttacta attcatgttt acaacaattc attcaaaatt tcaaataaat attaaattaa 120
 aatgtgctaa atacttagtt ttctaaaatg atgttttgct aatttatgtt tacaacaatc 180
 catttccctc caaccaaaca cactttaaac aataaacatt agtgttgtgt agcagaaact 240
 ttccaataga aaggagaagg atgcaagtaa gtgaatgaaa ttttagggac cagaacatat 300
 gacatcccc aaatattgaa aagaaaaatg caaaagaaat ccatgattcc atgctcagtg 360
 gaaaaactta naggaagca tccacactca aaagattcat cggaagacat ttgaaaccct 420
 tgtaaataaa agc 433

<210> 16136
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16136

ttcttgcttt gtgagttgat tttagttnta gtttcacttt gattattagt caattcattc 60
 aaggaacctt tcaaagaaaa acatccgatt gatttttttg attattttat tattactttt 120
 ttttagatat ttgattatt ttattattat ttgtttgaa gatattttga ttattttttt 180
 attatttttt tgaagatatt ttgattattt tattattatt ttgatttttt ttatttaacc 240
 gaagttacaa cgtgaacgat cggatggatt ttattttaat agtgattaaa cgagattaca 300

acacaaatga tcttttaa at tcattttatc aattattagg cgagataacg gcttaattaa 360
acggtaaaaa gctcggttaa ag 382

<210> 16137
<211> 442
<212> DNA
<213> Glycine max

<400> 16137

tggacttcct gtgttttggg aacctctcct tcttcagggtg tacccaaacc caatcacctg 60
gttcaagcat gactttcttt ctgcttttgt tggcttgccct tgcataagctc gcatttttct 120
tttcaatttg agccttcact tgctcatgca acttcttcac atactcagct ttagcctgtg 180
catccttatg cttaaacata gcaatgttag gcataggcaa caaatcaaga ggagtcaaag 240
gattaaatcc atacactatc tcaaattggg aacaattagt tgtgctatgg acagcccgat 300
tataagcaaa ctcaacatga ggcaaacagg cttcccaaga tttaagattt ttctttaaaa 360
caatcctaag cagtgtgcct aaagtcctat tgactacctc agtttgacca tcaatttgtg 420
ggtgacaagt agtagaaaac aa 442

<210> 16138
<211> 272
<212> DNA
<213> Glycine max

<400> 16138

gatctatagc ctcagatccc gctcgatgga gacgacttaa accacactgc attattgtga 60
cgacatattt aacaacctga cttaatcctg agatgcctct tggtaggactg agcttaaatt 120
gtgcttcatt caagctctaa ggcaactata cattttccaa tggtaacatc gcctaactcg 180
ggacactaat gggatgatga acaagggcct acaaagatta agctctgaag gaagcattgg 240
acacaagaaa cacagacgac tagatattaa aa 272

<210> 16139
<211> 75
<212> DNA
<213> Glycine max

<400> 16139

ccggaaagag aactgcatta cacctgagaa gaaatgttct gtcatgggtca ctcgacatg 60
catcttcaaa aggcc 75

<210> 16140
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16140

ttcttgtctt aaacactaca ttctttgtcc tactaagcca ttgttggtc taaacaaatc 60
aataagattt gttggaagat tatgcactga ctaaatatgt gatcgtotta tagacaaata 120
tatcacttaa cacttttagt cttttctttc aaggatatac aggtgttttt gagagcttag 180
taactataca agaattttta aaaaacttta taagaaagaa tgaaagaata aggtcacaca 240
gatgattcgg gtattgtttc ttcanagctt cttttatata tagccttcat ctccaagtac 300
ctgttggtgc atgtaatgct tgcattaaat gcacatctga tcgcaaccgg caagtgtacc 360
ggatcgacac agtagt 376

<210> 16141
<211> 413
<212> DNA
<213> Glycine max

<400> 16141

tgcagatttg gccttcgcca gtgaaaggat caatgtgggt ccgaaaagag gcaaatttga 60
tcctctact aggacgactg aaaaaactgg ggcaaataaa gaggggtgagg atgaaggaga 120
aaccatgct gtgattgcca ttctgtacg gccaaagttc ccaccaaacc caacaatgtc 180
attactcagt caataacaaa ctctctcctt acccaccacc cagttatcca caaaggccat 240
ccctaaatca accacaaagc ctgtctatcg cacttccaat gacgaacacc accttttagca 300
caaaccacaaa acaccaacca agaagtgaat tgtgcagcga gaaagcctgt agaattcacc 360
ccaattccag tctctatgc tgacttgctc ccatatctac ttgataattc aat 413

<210> 16142
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16142

cggtacctcg gngaatectc tataagtcga ctctgcattg catgcaagtc ttcataaaact 60
ttatacaacg aatgacagct ctgatatcac tatgttacac acagtggcct cagatatcga 120
taagaagggg gggttgaatt aagatatcaa agactttcct caattaaatt tttattctc 180
ctttttaaaa ttttcaatgt acctttatta tgaattacta aaaagacaat tcaaaataaa 240
cttctttaat gcaaaagaaa aataacaata actaaaagaa gttaaggga aaagaaagt 300
caaactcagt ttatactggg tcggccacac tctgtgccta tgtccagccc ccaagcaacc 360
cgcttgagat ttccactatc ttgtaaaatt ccttttataa tgtctgaacc aaggacaacc 420
cttcctttgt gttca 435

<210> 16143
<211> 425
<212> DNA
<213> Glycine max

<400> 16143
tgcctaatta acctgaaatt gagagagaat gattattaaa cacacagaat gaaaatacta 60
aggatttatt acctatactt aacagaaaat acttataacc ttacaaaata gccataaatt 120
aagagagttt gatacagttg atacgagttt tatacacaaa agttagtcac tttcaccgac 180
taacaactcc cccaaattta cagttttgct tgtcctgaag caaaaagaga acaactcact 240
tgtgtcaag tgacaatgac atgcggtgat tatgtacgaa ggtgtatgct acaaagtgc 300
tgattgcatg ataagagaat ggagtataat gccctcatca cttgtcattc acaaggatg 360
cagttatcca aagagaagaa taaaatgtga cctgaacaga tagatgaggt taggcatatg 420
acaga 425

<210> 16144
<211> 380
<212> DNA
<213> Glycine max

<400> 16144
ttcttggtga taattagctg cgacaacttt gtaaggtatt gcatactttg tcgtaggagc 60

ccacgtgcgg tgcttttggc ggttgacgca aacctcatct catgaataat tctactagta 120
 atttcgatat gtcgcagtat tcaaagagat acgttattct tttatacaa tgcaatattg 180
 aatattagtg tttagtagca ctatgtttta ttcttttttag acaatgcaat gtgaagtga 240
 attgtgattg aatattagtg tttagtagca ctacgtttta acacgttaca ttgtcacgtg 300
 tgttctagta agagatgtta tcttaagatt ataatgaagc aagatttttc gtcgctaact 360
 tttactttat ctacatgcat 380

<210> 16145
 <211> 307
 <212> DNA
 <213> Glycine max

<400> 16145

ccaactgac ataccctct ttctttggta cagtgttaac tctttaactg cacctttggc 60
 gtatgtagac gatatagctc taatatgaca tgacattatg gctatcaaac gtactaccat 120
 attactggac caaacgcaca agatgaaaga tcatggcgct tataaaatta ttccttcgca 180
 tcgaggacgc ttgttcccaa caaagcatcc atctatgtca taagaaactt tgcctagata 240
 tgctctctga ttcaggaatg cctgcatgac gccacgcatg cacacccatg gattggacta 300
 ctgctcc 307

<210> 16146
 <211> 348
 <212> DNA
 <213> Glycine max

<400> 16146

ttcttcttat ccaaggcaca ttcttggtgg tgaagcttct tcttgcatgg cttattccct 60
 agtggatgtc gcctcctctc acctcttctc ctttatcttc cactgcatct ccattggtga 120
 aaatcaccat tgaaggacct cattgaagct caaagatcca gcctccatag aagccccaca 180
 agcaagcttc cattataagg gggcacatta cttctcaatg cccaccaag aaaaccatga 240
 ttatgagggg ccaagacatt gatagtagcc aagatgaggc tactactata cctcctcta 300
 gtggaagtga agaagccaat gggacagaat ctagggaaga tatctacc 348

<210> 16147

<211> 425
 <212> DNA
 <213> Glycine max

<400> 16147

tgatcaaaac aattatctat tcattcaaat ccaactcaaat catacaattt cttattcaaa 60
 tcattctcaa acacacattt catacaaaac aatccactgc atatcatttt caaccaattc 120
 actgttcaaa caagcttttt gtacaagcaa acaactcaaa gtactaaaat ttaaagaact 180
 gaaacataaa aactgaaatt taaatgattg aacataaatc atataataac taaaaataaa 240
 ctaaaatgtt caaaatgcac aaatttaa atgtctgtcc tgtgcatgct cattgagatc 300
 caacacctga gcagttggtg aatcgtgaga gataggctgc tctaactcag atgtggatgc 360
 agatggtatg acatcatcag gtgtgggtgc tggggatcgc tctgggatct agtttgtgga 420
 agtct 425

<210> 16148
 <211> 354
 <212> DNA
 <213> Glycine max

<400> 16148

ttcttgccctt ggttttagaca tgattgatac atgatttggg actttagtagga ttcaatttgg 60
 gcaaaattgg atgagggaaa gtgtgatttc gaaaatctgc actttatgca gaattttgct 120
 gtcaaatagg tgcagcagaa ttttggttt gtgcagaaag tgttgtgtat ttgctggctg 180
 tggaaagagt agtacagatt tggttctgga cgttttctag cagatcccaa cggtcataat 240
 gtagatttat gtgctagaga cttccagtaa aattttcgag tcaatccaac ggtaacgaa 300
 ttggaacgaa gagaatatta ctggggtatt tgagtgtgaa aagctgtgat gttg 354

<210> 16149
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16149

ntgaggattt ggtctttgcc agtgaaagga tcattgtggg tctgaaaaaa ggcaaattta 60
 gtcacctgc ttggacgaat gagaaaactg gggcaaatga agagggtgag aaagaggag 120

aaacccatgc tgtgactgat attcctatac ggccaagttt cccaccaacc caaaaatgtc 180
 attactcagc caataacaaa cctccttacc caccacccag ttatccacaa aggccatccc 240
 taaatcaacc acaaagcctg tctaccgcac ttccaatgac gaagaccacc ttagcacaa 300
 accaaaaaaaa acaccaacca agaaatgaat tntgcagcga aaagcctgta ggattcaccc 360
 cacattccag tgtcatatgc taactcgctc ccatatctac 400

<210> 16150
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16150

ttcttgaacg ttnttgggaa ctttttttta gagacaacgg atgttaacaa ttaaaaaata 60
 aataaaagcg ttctgcatga catattttgg gatttaaaat attgcttgtg aacaaatttt 120
 gttgcatttt ccttatattt tgttctcaag caataattat ttgtgtaacc aagttgttga 180
 tatgatttag gtttaattac tcatttagtt tttatagttt ccaaactttt atatgttaat 240
 ccctatagat aataagtgc tttttcagtc tttgtagttt accattccga taagttctta 300
 ccgttaaaat tgtttaacat cgttaaatta ttgttgccgg tcattctttc ccagagctcc 360
 ctctcttccg agag 374

<210> 16151
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16151

tgagagggtg gattntaggg taatgttcct aattatacat tgagcatttt gtttataatc 60
 tccatccttc tttttaatgt tggaacaata gcatttgtag acatacctga tttgtccttt 120
 tgaatatcaa gaattcagat atttaacttg agtatttata tttagttgaa tagctgagct 180
 ttcagtttgt atatgaatat tcatggttac ataactttct atcgattatc aaattctaata 240
 ttaaaaattg ctctctatca ggcctttcat gcctcacat tgaagtgaat ttntctcctt 300
 ttatcagtca attgcactta ctgatggaag ttctctgtga tctgtctccc aatattctca 360

aactgtggat acctgttaac catgtgcagg tagcatcaag tgtttttctg ga

412

<210> 16152
<211> 383
<212> DNA
<213> Glycine max

<400> 16152

atcttatctt tatctctacc aacaaaaaaaa aaaacccag agtaaattggg acaaaatctg 60
attaatcaga ctttctaaca ttagatatca atattaatat tatatatagt taaataatac 120
aaatataatg ttaaattaac gtatattggt taacatattt taaaataaac aaattcattc 180
taaacataat acataattgc ttaagagaat attaacgcta aatcatgtta ggacaatcca 240
aaccacaacg tgaacaatgt tacaaaatgt atcatgttca tttctaatat tcaaacctat 300
gcaaattaac taagttggat tgaatcaagg tgtgcttgaa ttattggtgg gaaaatacaa 360
aaacatattt gagaataaaa tca 383

<210> 16153
<211> 431
<212> DNA
<213> Glycine max

<400> 16153

aagcttttgg catggttttg ttcatatata tttctcctaa tattgtgatt atattatttt 60
aatattaag ctactaccga ttgcaaacat cctgcggact aaagtgccga aatgtatggt 120
ggcagcgagg cactactttg agttgttccc atgtgcctaa cttcaacata taacctctgt 180
cttgctttct ttatgctgct gttaatgtca aattgtttaa atttaaattgt gcaagctgct 240
taagcagtac taagttagtc gatgctgtca tgtaaaaata tctaacgggc ttttactcat 300
ttaacttgaa agtatagcag aatttgagct ttgcattagt ggacatgcgg gatttaaaca 360
gcagattgac gacatatttg tggaaatatg ttagataata atctatttga ttcttggcac 420
tttcagtctt a 431

<210> 16154
<211> 391
<212> DNA
<213> Glycine max

<400> 16154

agcttctata tattgttcgt tcctaatttc tctacaattg catcacctct caatgagctg 60
gtgaagaaga atgtggcatt tacctgggggt gaaaaacaag agcaagcctt tgctttgctc 120
aaagaaaagc ttactaaggc acctgttcta gctcttctcg actttttctaa aacttttgag 180
ctagaatgtg atgcctctgg agtggggagtt ggagctgtat tggtacaagg tgggcaccct 240
attgcttatt ttagtgaaaa actacatagt gccaccctca actacccac ctatgataaa 300
gagctttatg ccttaataag agccctcaa acttgggaac attaccttgt ttccaaggaa 360
tttgtcattc atagtgatca tcaatcactt a 391

<210> 16155

<211> 434

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16155

tctccttcca tggtttattc cctagtggat ggcgcttctt ctaacctctt ctactttatc 60
ttccgctgca tctccatggt ggaaaatccc cattgaagta cctcattgaa gctcaaagat 120
ccagtctcca taaaatcttc tcaagcaagc ttccatcaag tggtaatcag agcataagag 180
cttcaagtag gtgctcctta aacctccatt aacctccatt gttgtttctt catTTTTctc 240
catgtatttc ctcacatgtc ttgtgttgaa tgTTTTaac atgattcttt agaattttca 300
ccgggttaaac ttgttataaa agttagattt gatttctat gggtcaaatt tcttgttctt 360
gttcttgaac catgaattgt gttaactnta gggtcctttg agttctgtct tgctattttt 420
ttgtggctga aact 434

<210> 16156

<211> 344

<212> DNA

<213> Glycine max

<400> 16156

atcttgggtc tgggttatag caccacact gacgtcccca aggtctactg acccccgca 60
catatctcca ggtaccactc tgtgggtcaac agataaaagc atgaagttac acccttgaac 120

actgactcat ctcaagcttg taggattatg gggtagccat cacatgtggt actatgtggc 180
 ggccggggcga tgggtgcacaa caagttttac acatccacag tgccgcgata aaccacccat 240
 cctctgttgc ccacctccaa cagagctcac gtactccac gtagcctgat atcctcgctt 300
 ctctcaacac cgggaccgca tcaatccttc caagcttgca caac 344

<210> 16157
 <211> 432
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16157

ntgatttctt ttgttccgga nacctttctt ttctcatgtg cacccaaacc caatctccgg 60
 gtccgaagac aaccttcttt ctccctttga tggcttgttt agcatagctt ttacttttcc 120
 tctcaatttg atctttgact ctataatgaa gcttcttcac atagtccgcc tttgcttgac 180
 cttctttatg cttaaaaaca gaaacattag gcataggcaa aagatcaaga ggagttagtg 240
 gattaaaacc ataaacaact tcaaggttta agaaagaaga atcatcggtat gacgccgatc 300
 gaacatttcc taatagacat catccaaata ttattcaggg attgaataga agatacaata 360
 gccgacatcg gccgttgtaa atcagcgact gatatttttc agccgacgtt gcgcaatttc 420
 ttttacaac gt 432

<210> 16158
 <211> 388
 <212> DNA
 <213> Glycine max
 <400> 16158

agcttccttc tacacctgaa aaagaggatg agatagggtgc acaaaagaga aagcttccta 60
 acaaaattat tcatgtaggt ggacctctt cttgtaattc tgacttacag aagccttcta 120
 tgctcttgc attccacct agagtaattc caaacaaaag gatggaagaa gtggaaaaag 180
 agatcttgga gacctttaag agagtagagg tgaccatata tctgctagat gccatcaagc 240
 agattccaag atatgccaag tttttaaagg agttgtgcac ccacaaaaga gagctcaaag 300
 gagatgaaag gattagcatg ggcagaaatg tgtcagcatt gataggtaaa tatgttcctc 360
 acattcctaa gaaatgtaag gacccatg 388

<210> 16159
 <211> 442
 <212> DNA
 <213> Glycine max

<400> 16159

gcttgaaagc agagctcaca aagacaagag tggatgaatga gaagttggaa actacaatca 60
 ctaggggtcag gaaagattgt gatgagctga aagacatcaa catgaccaca gtcaaagcat 120
 tagagcgaga aacaaaaaga gccagacggg aagaatgagg taggaacaag tttcgagggg 180
 ctttgtgggg tagcaataac aagctcaaac ttagaagggc cgagagggac aaattgttcg 240
 ccctcactca cggatcactt cttactcttt tcttttcttt tcaaaacacg aaaatggggg 300
 tgtgtgtgtt accggttaagc agaccagatc gtcaagtatt ttaaattaaa atggagtgat 360
 ccgagtattg aacacagggg acttgtggat tagacacaag tttgttcagg aatcaggcat 420
 tgtgtaaaca aacattgata ct 442

<210> 16160
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 16160

ttcttattca ttcaatccaa taatagattc tttctgactc gagtagaaat tcatcataaa 60
 aaaaggaaac cataaaaaat accaagcaaa gcataattga gaaacaatga cactaaacaa 120
 gtgtgaacgg agtttgcttt tgtctagaga ggcagcaacc ctgagcttct ttgaggaaca 180
 acatagatat acacaaacaa tgtcaaaatt ccaaccacac aggccaaagt gataatagca 240
 acagtgaatg agatgatgat caaagccaga aatgaagcag cacctccaac aataagcatg 300
 gcacaagtta tcaaaggaag aagatttatg ttatgtttct gaagtattgt ttcaatgatc 360
 accaagaagg agtatacgac aatgctc 387

<210> 16161
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 16161

cttgaatctt tcgggtgaac tcgaaggggg ttcaatgtcc attgtcaaatt atttgcttaa 60
acaagacaac cccagaagca atttaacaag acagcactat taagacagtt tttttgtcac 120
aatgatgaga aagtcacaag gaacaaacaa ccccttcttc ttcaacaacc aagcacaaat 180
ttgatgactt tttgcagtat attaccatca taccctccct aatattcgta aaccaaataca 240
tccaccaagt gacgtgtttg atttagttta ttgagaaata taataatgca ttgcccactg 300
catctgcatg aatcaattga cgcttaagtt gttaaggtt aacaagaaat atcgttttga 360
tttctggta tataaaaata caaataaatg aaagaaaatt nttattgggc tataataatt 420
ttatctgcca acaaaattgt ctct 444

<210> 16162

<211> 379

<212> DNA

<213> Glycine max

<400> 16162

atcttgttta tgacccttac ctttaccttg atgatcatca attaccctat tggcttatta 60
gtatacatat agttaaatag ctccctgaaa ctccctgggg taagatttat cgaatgcctc 120
catttgaatt ttatactctt ttgtctttcg actatcctag cattttatta accttgcttc 180
tttgttttgg ttttagctct ttctaagaag atcccttaag atgctgtaat attaggtaag 240
gaatgaaata acacgaaaca cactaacagg ggggaggagg gttaaatagc gtatatatca 300
aagatataaa cttttgcaat ataaaagtga atatagataa caatatatta aaaataggtc 360
atccactgaa gataaagtt 379

<210> 16163

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16163

ttccagaggc aagctaattt gtacgccttc ccgatggagc atttacattc attatcttct 60
ttgtggactt tttctaagtg tggaattgaa atcctcaatc ccttaccgat tggcatcctc 120
cagctgaagt attaattgtg gcaattgact aattcaacaa atggggttgaa gccgagctgg 180

tagccaggat caccattgaa caagtacata aatTTTTatg gcaatcaata atgtgcctat 240
 ttgggatgct aaaaaccttg atagtagaca atggcacaca gttcaattgc aatagtgtta 300
 aagaatttgt gacagccaca atgtaaagt gatttttgc tgggtggaac accctcaatc 360
 aaatggtaag gtagaggtgg ccattaaggt gatactaaag ggtntaaat caaactttca 420
 acat 424

<210> 16164
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 16164
 ttctttgagc caattcaaac gacaataact ttttactcgg atgtctgatt gagtcccgtg 60
 atataacgag acgctcgaaa ttgaatgttg aagctctgag cgaattcaaa cgacaataac 120
 tttttactcg gatgtctgat tgaggcccggt aatataatcga gacgctcgaa attgaatgtt 180
 gaagctctga gccaatcaaa acgacaataa ctttttactc ggatgtctga ttgactctcg 240
 tcatatatcg agacgctcga aattgaatgt tgaagctctg agccaattca aacgacaata 300
 actttttact cggatgtctg attgaggccc gtaatatatc gagacgctcg aaattgaat 359

<210> 16165
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 16165
 taaacattca acttcgagcg tctcgatata ttactagtct caatcaaaca tccgagaaaa 60
 aagttattgt cgtttgaatt ggctcagagc ttcaacattc aatttcgagc gtctcgatat 120
 atgacaggac tcaatcagac atccgagtaa aaagttattg tcgtttgaat tagctcagag 180
 cttcaacatt caatttcgag cgtctcgata tatcacggga ctatatcaaa catccgagta 240
 aaaagttatt ggcgtttgaa ttggctcaga gcttaaacaat tcaatttcga gcgtctcgat 300
 atattacgag actcaatcac acatccgaga aaaaagttat tgtcatttgt aattgctcag 360
 aggttcaaca ttcaatttcg agcgtctcga tatattacag gactcaatca ga 412

<210> 16166
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 16166

atztatgcat tcttgtcctt aattcaaata atatagtagc caagttggaa taaaatcatt 60
 ttatccaagc aaagacacat tatgtgatat gccataagca atgtgtgcat tatgtaaagt 120
 ctctccgctt gcaggggcaa ggttgcatac atctacactc cccaaacccc actaggtgaa 180
 agcctcatgc atggggtctc atttatgtac agccttaaac cagaaggggt gaaagtttat 240
 tttcaaaaaa agacagatag aaccactcac taaaagtaaa caatatatgc tatagaccaa 300
 tacacaaaca aaagcacagc ttactcaata acaaaaacat tcatattaga tatgatagac 360
 tctaatttcc tttaaaatgt cgcgtgat 388

<210> 16167
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16167

tgtaaaatac aatcaggagc tatctcatgc tctttaaaac caaaactcat cttcaaagct 60
 tgctttgcca tttcatccac aacactgttg gcttctctga ccacatgatt ccaaacctca 120
 ttttcatatt gccctgaaaa tctgtgaatc tcttcgacaa gttgatgctg aggatgaccc 180
 aaatcacatc tcccatcaag aagggttata gcctccctag aatccgaatc cacacgaata 240
 agtcgaaaag ccgaccatgc aaacttaaga ccaagtaaaa tggctcgaag ctcagcataa 300
 agaacactgc ctctccact tttggcctga aaactgcaaa gcaaggaacc agcanaatcg 360
 cggattagcc ctccatagcc cgcaagactg ccaaattgag caacagatgc atcacaattc 420

<210> 16168
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 16168

atcttgtctg tccgatgcag tagtaatgat ggcccagatt atgttgggga acggttacga 60

acccggaatg gggttaggga aagacaacgg cgccatgact aacctgataa atgccatagg 120
 aaatcgtggg aagtatgggt taggctataa acccactcag gcggatataa agagaagcat 180
 cgtgggaaga aagagcgggt gtcaaagctc gcggttgagg caagaaagtg aaggaagccc 240
 gccctgccac ataagtagaa gctttataag cgcgggtctg ggagactaag gtcaagtgat 300
 cgcgatatac gaagatgatg ttccgagtac attgtatttg gtacgaccat gcccttctga 360
 ttaccagctg ggaaac 376

<210> 16169
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 16169

tgcttgtgga gctttgatgg aagctggatc tttgatcttc aatgaggtcc tttaatgggtg 60
 attttccacc atggagatgc agcgaaagac aaaggagaaa aggtgaaagg aggtgccatc 120
 cactaggtaa taagccatgg aagaaggtgc ttcaccacca tgatgagcct tggaaaagaa 180
 gcttgggaagg atgcttcaat ggagaaaaag aaagagggag agaaagtgag atggggggagc 240
 acgaaattga aggaataaaa gagggagaga agtggaaactt tgaagtatgt ctcaacaagac 300
 tctcattcat caaagttaca ataaatgtta cacatgcttc tatttataga ctaggtagct 360
 tccttgagaa gctttatata gaaaacttcc ttgagaagct tctttgagaa aacttccttg 420
 gg 422

<210> 16170
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 16170

tttcatgcat tcttggcaca atagatcaca ttaagacttg tcagcttagt agattctttg 60
 atgtgtgttg ggagagacac aaagttgttc catgatactt ttaagtcttt caagtttagga 120
 aaattgtaaa taataacgtg aacatctttt tcgaatagat ccatagtttg gaaatgtaat 180
 atctctagtt ttgggcaagc tgaatgatag tttccttcca atcttctaaa tgactctcga 240
 agtccatgac atcctacgat ttttaatgtg acaaaatttg gcaacactaa caagctacta 300

ggcaaatggt cgagtcctcaa acaaacatcc atgtcaagat agttgatata ctgttaagct 360
aagtgcaggg aaattagagg agtatatgg 389

<210> 16171
<211> 426
<212> DNA
<213> Glycine max

<400> 16171

tatattataa aaataaattg ttaacttata atgattatta ttatgatata acatgtacac 60
atactattat gattaagtcg gtttaattaag ttataatttg cactctgcct ttatctcaaa 120
ggagtcaact caaggtttct ttattatcca tttagaatga aacacatata agttatactc 180
gtgagcatgc taggtatcca cttttaaatg aaaaaaaagt atagaggtag attatcaatt 240
acttttttta aattatattg aataacttaa ttatttttta tagtataata acttaccata 300
aacaaatatt aaagaagtat ccgtgtctat tctatagtct cttcttagaa aaccataatg 360
gttggtcctt tattggaaat aataagtcac gatagaaaat cacataaaag cccatttcct 420
cttttc 426

<210> 16172
<211> 368
<212> DNA
<213> Glycine max

<400> 16172

tcattcttga gatgaggaag tgttgaaggg tgaaacttcc tgcttttatt gttgaccaca 60
gagtgggtacc tggagatatg tcgcgggggt caggagacct tggggacgtc aggtgggggtg 120
ctattgccca aaaccaagct tgaccaatcc cgaccaacc cgggcatagt cggtcagtga 180
gaacctgtga tgtacctaaag caggcgagct cctggcagtc aacagataaa agggaaacaa 240
gaccacaaag caaggaggct tgtgggtggc ggccagctgt gaattttgtg taatatgtgg 300
attgtggcct ctggtaatcg attaccaagg gtgggtaatc gattacaagg cttaaaaatg 360
aagacagg 368

<210> 16173
<211> 418
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16173

tggagaagat gcttcattgg aggaaattta gatggagaga aagagagagg ggggagcacg 60
aaattgaagg aataaaagag gtatagaagt ggaactttga agtatgtctc acaagactct 120
cattcatcaa agttacaaca agtgttacac atgcttctat ttatagacta ggtagcttcc 180
ttgagaagct ttcttgagaa agcttctttg agaaaacttc cttgagaagc tagagcttag 240
ctacacacac ccctctcata actaagctca cctccttgag aagcttcctt aagaagattc 300
ctaaagaagc tagagcttag ctacacatac ctctctaata gctaagctca cctccttgag 360
atgagaagct agagcttagc tacacacccn ctataatagc taagctcacc cncatgac 418

<210> 16174

<211> 373

<212> DNA

<213> Glycine max

<400> 16174

ttcttatacct tatggcctgc ctccggactt cccccccgt gccaccccg aagattttaag 60
ccaagcccct actttcgagg ggcaactccc accttatgaa gactatcccg ggcaagatga 120
tggggaagga gatacccatc ttggccccct gctccacctc aaagatctgt cccacatga 180
actaccccaa ccgaacatag tccgccatac cccggcctca cccacacctt taaaagaatc 240
tgttcccttc gcggaagata agggaaagat tgaggcgctc gaagagaggt taagagcagt 300
cgagggcctt ggcaattacc cattctcgga tttagcggat ttatgtctcg tgcccaatat 360
cgtcattcct ccc 373

<210> 16175

<211> 414

<212> DNA

<213> Glycine max

<400> 16175

tcatgactaa atctaatacaa gaaaataact tatgaatcac tggaaatatg tctaattcaa 60
gattgagaga aagtcgtgac gattatgtcc ttcaatctgc aaccactttt gacaaacaaa 120
ctgttgtaat tttaatgttt atttcaaaag aatttttttt agacttagtt aaagaatatt 180

ataaattatt tataactctc aatttctttg tctcaggttt tctttatatt ggtttaatgt 240
tcatttgact tattcaaatt cttgcttaat ggtttaacgt taaaatgatg gtcaggtgca 300
atttgatgac taacataatt tgttttcaaa cattggagat ttttttaact aacaatattt 360
gctttgacca tttaaaacaa ttaattgaat gtgaaagcaa cttaagtgac ttgt 414

<210> 16176
<211> 173
<212> DNA
<213> Glycine max

<400> 16176
agcttgcaag aggattggta gaggggctct catctaaggc ctttatgtct tagatctcaa 60
ggacactctt gattgtaaat ttacttttcc tgttatcaat tcccatccaa attccattcc 120
ttgtaaaaat gctcatattt ggcattctag atttggtcac atctcagaca aag 173

<210> 16177
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16177

agctttcaac tgagtagatg acaatactag acggtgggtt tacaaactat tattctaaca 60
tcttccattn tgaaagattc tatattttga ctaacacaat attcaacccc ttccagtgtg 120
attcatgtta tttcatataa tagtcgttga ttaaatttga acaaatttaa tattgatgaa 180
gagttaaatt acttgcataa atgtcactta ttataaattt gtgtctatat aataataata 240
ataataataa taataataat aataataata ataataataa ttaattttta ttattattat 300
tattattatt atagcaacgt ttaagaatga gcatgcctat atatatacat atanttttaa 360
aaataataaa taaaatatag aacaatt 387

<210> 16178
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16178

00443-105-404599

tagaagatct atatatggac taaaacaagc atcctaccaa tggatatatt agtttcatag 60
 tgtgggtctcc aaatatggat tttgtggaaa gtgttgtaga ccaatgcata taccttaaag 120
 tcaataggag taagttgatt ttcttagttc tatatgaaga tgacatttta cttgctagga 180
 gtgacttagg tcttttgcac gacactaaat ttttcctctc acaaaacttt gatatgaagg 240
 atatgggtga agcttcctat gtcattggca tagaaattca tagagataga tctctaataa 300
 cattaggact atctcaaaaag gctacatag aaaagttttg aaaaaattta atatgcaaaa 360
 ttgttcatca attaccgcac ctatagttaa agggaaaant ttagtatca atcaatgtcc 420
 ccaaacaaca ttggaa 436

<210> 16179
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16179

agcttctttt tttttcataa gttaacatta atttcttgaa acagttaaaa agaaatacca 60
 taaaattaat tagtaaaatg ggctttgtaa gtacgagttt tataacatct gataaaacaa 120
 tgtggtaa at caccagtcga acaacttggt tcttcatggt tgtctttcat tgtgaccctt 180
 tccattgctt tgatattcta caagtttcta ccttagatag tataggagta agcaaatt 240
 atattattta tctaccagtg tgaataagat ctatgttcat gtaaattgcaa cattntattt 300
 atttctttgt tcatatacat gctccaccag accagagttc tttcacatca ttatatgctt 360
 taccaacact ttgttttacc accaaaa 387

<210> 16180
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16180

nttggcacia agaagaagaa gaagttcaaa gagattcaag gcttgtaaag gattgtaatg 60
 aattgattgg attgatagaa agattgatta aaaatgcaaa acaaagcctt gcttttatag 120
 actcttcatg tctgggtcaag aggaccattt agaagagtta taacttttag aaaaaactta 180

aaaccaatTTT gaaaaagtca aaaaccatTTT gatgagttac atcttttgat ttattcagaa 240
acaatcactg gtaatcgatt accaaatcag tgtaatcgat tacacaaagc ttttatgtga 300
aagtatgtga ctcttctctt ttgaatttga atttcaacgt ttaaaggtag ttgtaatcga 360
ttacccaaaac attgtaatcg attacaactt tntgaaatca attggaacgt tgtaaattca 420
gttgaaaaa 429

<210> 16181
<211> 357
<212> DNA
<213> Glycine max

<400> 16181

atattactag caactctaag atgagcgaat agacatctta cataactaaga aggtaatgta 60
taaatacatc ctcaccggaa tgactgagta aaaaccatTTT ggtattggat ctgaaagcat 120
tccaatctgc cagagtgcga gtgatgctgt cagagaagac agcacatctt cgacaacatg 180
tcgaggagat tacttattac ttaaggcttc atcttgagaa cccaaagaaa cagatccaaa 240
tttttcaaca aaatctgaag gccaccacaa cacattagat ggcccttgct ctgccggccc 300
tgcatcttct cgtgtctctt ccattgttctt atatatttag aatgaaaaac catttcg 357

<210> 16182
<211> 445
<212> DNA
<213> Glycine max

<400> 16182

tcaagcttct gacaaaatcc atcaacacat gcggactcca atttgtggct tactattatg 60
ttcttcaatt ttgcatgatt tgtctcact tctctgcaa cttcattctc atcatccatc 120
acaattttca cagctttgct tacactctcc ttcgtgaacc agccatcttc ttcacccttc 180
tccatttcaa cccaatctt taagttttca cccatcatcc ttgcattaac tatatgatca 240
ccatctacct gtggcagtaa cactatttgg cacttattca ctagtgcctc agttaatgaa 300
ccagcaccac aatgtgttat gaagcaaccc actgaagggt gttccaaaat cagctgttgc 360
tgtatccatc caccgaggac aattactctc tcttcaaccc tttccttgaa cccttctggg 420
agagcagctt caagtgtctc aaacc 445

<210> 16183
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 16183

ttcttgagaa tggagaattg cactaagcaa tcactacgca tagctccaaa ctggaagggtg 60
 gaggacacat gaacgaaaac acaattcatg gggctccgaa aaaggggttg agaattggaga 120
 attacactaa gcaatcacta cgcatagctc caaactcgaa ggtggaggac acatgaacga 180
 taacgcaatt catggggctc cgaaaagatt gagaatggag aattgacta cgcaatcact 240
 acgcatagct ccaaacgcga aggtggagga cacatgaatg aaaacgcaat tcatggtgct 300
 ccgaaaagaa tgagaatgga gaattgcact aagcaatcac tacgcatagc tccaaactcg 360
 aaggtggagg acacatgaa 379

<210> 16184
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 16184

ttgtaggatt atgggggtacc catcacatgt ggtactatgt ggcggtcggg cgatgttgca 60
 caacaagttt tccacatcca caatgcgcgc ataaaccac catcccctgt tgctacctc 120
 caactgagct caggtactcc cagtagccg atatcctcgt ttctatcaac accgggtccc 180
 catcaatcct cccaagcttt cccaacatca aagtaatata acattcaaac ggcacaaact 240
 atcacagcca agaaaacaga gcaaaggcag aaaactctgc caaaacacca accaaaatca 300
 cagcttttct cacttaaaga cccagtaac aattgcttcg ttccaattcg ttaaccgctg 360
 gatcgactcc aaatttttac tggaagtctc tagtacataa gcctacattg tgaccgctgg 420
 gatctactag cagacatcca 440

<210> 16185
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 16185

ttctatgaag aaatgagcta caaacctaca cgctcacatt caattctttt tttataaag 60
ctgaacttag gagatttgag aaattctatt cagatcgga agtttagatg atagaagaag 120
aagagaggat tcacgccaag ggtagtnta ttgcaattaa taagattgca atgaaggttc 180
ataagctctc tgaaccaga agtataaagc tctgtataaa agagacgaaa aactaactac 240
ttaactgaaa ataggtacaa cagaaaagaa aaatacaaat tttgtagaa cataacctat 300
gttaatcaac caccctaaact agatgctccc ttttacgaga ctgaactctc caccctaaata 360
ctagagattg gacgac 376

<210> 16186
<211> 331
<212> DNA
<213> Glycine max

<400> 16186

ggaggagcgc cagattgact gagtaacaac tgatacaggt ggaactctga agagtatctc 60
ataagacttt cattcatcaa agttacaaca agtggtacac atgcttctat ttatagacta 120
ggcagcttcc ttgagaagct ttcttaagaa aacttccttg agaagctttc ttaagaaaac 180
ttccttgaga agtttctttg agaaaacttc cttgagaagc tagagtttat ctacacacac 240
ccatctaaaa actaagctca cctccttgag aagcttcctt gagaagctag agcttatcta 300
cacacacca tctataaact aagctcacct c 331

<210> 16187
<211> 213
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16187

atcttctagc caaatggact taccttgaat taattccttt gatagccctt ttgagccttg 60
tttccctttc cttgttttga atctcactac aagccttaag tgaaaaacca tgatatcacc 120
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tagnttaanc tctttaaact tactttaatg gag 213

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 <213> Glycine max

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 <212> DNA
 <213> Glycine max

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 <212> DNA
 <213> Glycine max

<400> 16193

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 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
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 ttttgcccgt gtggatggaa gcctgatgct attgtccttt tatttagttg gcacaatgat 360
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<211> 378
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
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 <211> 414
 <212> DNA
 <213> Glycine max
 <400> 16196

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<210> 16197
 <211> 377
 <212> DNA
 <213> Glycine max
 <400> 16197

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gacaacacga tgaatctgga aaaaggggaat gggccatcta ctacttgagc aagaagttca 240
cggcatgtag atgaactaat tgttcttaga gaggacatgt tgtgccttgg cgtgggcagc 300
tcaccgtttg aggtagtata tgctgagtta cactacttgg ttgggtgtcca taatgtatcc 360
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<210> 16198
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
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aaatgtttgg agtttcaagt agacctgtca tcattatatt atatcactat tacaagttat 360
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<210> 16199
<211> 379
<212> DNA
<213> Glycine max

<400> 16199

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379

<210> 16200
<211> 421
<212> DNA
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<400> 16200

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aaccgcgtgt catactcata ccggtactgt cattgcaa at agattacact tatttttgac 300
acaataatcg tgactcattt ttttgcaca ataattggta tgaccaatat tttattggat 360
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a 421

<210> 16201
<211> 350
<212> DNA
<213> Glycine max

<400> 16201

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atgtggatgg atcggttgc tcttaccttg aacgggagtc aagagcttcc ccgcttgta 240
gccaaggcca aggcgatggc agacacctac tccgaccccg aagagattca tgggcttctc 300
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<210> 16202
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
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 caatataacg gtgcataaca gaataccttt ctttttagccc ttttaaccat ttccatgcat 300
 gtatttttagc attctcaaag aagaatgaat tctacttatg ttgcacgtac aatcatttaa 360
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 <211> 426
 <212> DNA
 <213> Glycine max

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 aacgcttagg tttccttctc acattgcaga actgaaggaa gcttgctgaa ccacgagcgt 300
 atactaatgg gaagattgca ttgtgtgact agtgatcatc atataaggaa ttaaagggtca 360
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<210> 16204
 <211> 385
 <212> DNA
 <213> Glycine max

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tagactcttt aaataaatga gtcaagctaa agttattatt tgtttttcac aagtcaaact 360
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<210> 16205
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<212> DNA
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<223> unsure at all n locations
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aagttaaac aaaataaaaa aaagcattat gacttataga acttaccttt tctccaataa 360
aattgggtcc attaaatgct gaaaggagta aaaaacacaa aacaaaacga tcttcaacta 420
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<210> 16206
<211> 387
<212> DNA
<213> Glycine max

<400> 16206

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tggttttggg agtataccat ataccgaact cttttgtcct ttgagatacc tcaaaattct 360
ttttgtgct ccaaagagta tttgact 387

<210> 16207
 <211> 443
 <212> DNA
 <213> Glycine max

<400> 16207

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<223> unsure at all n locations
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<210> 16209
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 <212> DNA
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<223> unsure at all n locations
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<213> Glycine max

<400> 16211

tcaagaatta gccttatgat ttctgcctga acattatctt attttcaagc gaaaaagaat 60
ccttaataag aatgggtcaac cggctgagtc ggtcagggtta gaaccaaag tccaaattga 120
cctaaccgc atgttgactc ttggagacct aaaccgtcc aatggactt tcaattcaag 180
ttaagtgagt ttcaagttag aagggtagac gtaaccagt acaattatag gtcttgaaaa 240

tcattgttac ccccaacttg caaataacct caaatacaaa gcagaattgc gaatctatga 300
 taacaatcat tgcagcacta atacattatc ttcattatac agtgatacaa ctaatacccc 360
 tataacctga gtaaccattt ttgccattat c 391

<210> 16212
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 16212

tattttctac tgcaagctga gggctctatta aagctaccag tagcctcact gttatcctct 60
 gtgctacaac aggatataat cctttttatac tacttaggat caaactaatc ttgactatag 120
 cattcataaa tgtataataa tacatttgat gaaagcatta agaaaatcta tataacattg 180
 ttgtaactat attagcgacg catttggaat taaaatgcga gattggaagg tgaggctttg 240
 caattacagg acttctactg ctgctgttac agctgcactc caattctgtt cacgctgcag 300
 tggtgagggg tttaaaagag gataaactat aacgcgctaa ttctaaaacc ctttattatg 360
 ttctatt 367

<210> 16213
 <211> 496
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16213

aggcaccagt agatnnccgt tagcaanntc ganagccatc agacanacac gcnaccctac 60
 tcatatctct ggcgtgccgc gacgcattcg tactatacac taagttttta ttacctaana 120
 ggagtatcac atttacgact catttaatcc atcgacccat gacacataga ataccataaa 180
 gctgaagact atacaataca gtccacttag cttcttgtcg tacctaatat gcacatgaaa 240
 catcaaaata taggtctcat atttactgcc aataaaatcg atatcctcat gattaaggcc 300
 atgtctcatt atcaatgggt aaactactag ttataagtcc aacgatttca tagttatata 360
 agctcactca taatataatg aacgcattat gacttataaa actcaccata tgttcataat 420
 attagcttca ttaatgctca cacgagcgag cacacataac tcaatgattg tactaagcg 480
 ttatcacaaa ccatat 496

<210> 16214
 <211> 565
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16214

cccgctctctc gcactctctc antctntatta tattgatatg gagaanaagc gaaccgaggg 60
 aagatnnana tancnnnaca cncaagcaca cagacacngc ntttgangcc attgagttca 120
 tagcatngca nancgcnгаа gngactcgga acccgagat cctgatagag aagactccag 180
 gcgggccttc ctttacttgc gtgaaccatt aaatcacggc agaaactata taacaacagc 240
 cgagctcaag acgacggaac aaaagaacaa tcatagatca aaattaatac tacataagaa 300
 cgaggctgaa gattataatc aatacaatat aagagaaatg cacaaaaagc atggaatgag 360
 aaaaataact ggggacaggg gaagagaaaa atagatatct cttagatatc aaaagacagg 420
 aaccggacaa gaaccacgaa aacatatact atagcgaagt gaaaagaccg aatacctgtg 480
 agccgtggga caaatgtaca aactggcagg aaccgtagat ttgacaacag ccaatttacc 540
 tatacattat atgcctacaa aaccc 565

<210> 16215
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 16215

actaagagtt gactatattat gaagagtatc acatttagga ctcatattagtc tcatcatatt 60
 agaacacaca taatgacata acgtagaaga caaaataaaa atattgacat agggtaattc 120
 tcttcttatt attattatta aaaagattat gattgctctc attattattg tcaatattaa 180
 ggatatcctg attattatgg gcattcttca ttattaatgc gaaaagaatc attgataggt 240
 taaatgatat catagtagta taagttacca caaaataaaa aaaagcatta tgactgatag 300
 aacttacctt ttctccaata aaattggctc cattaaatgc tgaaaggagt tagaagcaca 360
 tagcaacacg atcttcaact aggcgcatta ataaacaaaa 400

<210> 16216

<211> 378
 <212> DNA
 <213> Glycine max

<400> 16216

ttcttttaggt tgctcattga ctccagattg ctgcaaagaa ggacatagat ctgtatggtg 60
 atctgcagaa gatcataaac cacagactct tgcaacaggt gcagatgtag atttttgatt 120
 catggcaagc tgagttacta tgttgaccaa gacatcaagt tttccttcaa gctttttatt 180
 tttagtagat gaagatgaat ctgtggccac ctcatggact cctctaagga caatagcatc 240
 atttcttgca ctgaattggt gggagttgga agccatcttc tcaatcaaat tcgtagccgc 300
 agcaggagtc atatcactaa gagctccacc actggcagca tcaatcatac tcctctctat 360
 gttgctaagt ccctcata 378

<210> 16217
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 16217

tatgctacaa atatttacia tagacctcct caatctcagc tgcaaaatca accacagcaa 60
 agcaattatg acctttccag caacagatac aaccctggat ggaggaatca tcctaacctc 120
 agatgggtcca gccctcagca acaacaacag cagcctgctc cttccttcca aaatgttgct 180
 ggcccaagca gaccatacat tcctccacca atccaacaac agcaacaacc ccagaaacaa 240
 ccaacagttg aggcccctcc acaaccttcc ctogaagaac ttgtgaggca aatgactatg 300
 cagaacatgc agtttcagca agagaccaga gcctccattc agagcttaac caatcagatg 360
 ggacaattag ctaccaatt gaatcaacaa caatcccaaa attctgacaa gctgccttct 420
 caagctgt 428

<210> 16218
 <211> 122
 <212> DNA
 <213> Glycine max

<400> 16218

gatgtgttgc catattgatg gatggtagag cccacgcgt aatttactgt atatgcaatc 60

ttacccttac attgtacctg gctagcatgc gtgcaatagt tattatcaaa ccattgtatg 120
ta 122

<210> 16219
<211> 415
<212> DNA
<213> Glycine max

<400> 16219

tgtaatcaat acttcttgaa tggacagtat ctgttatggt tatgatcaag gcaaaaccac 60
tagtacaat ttaaaagggg gcaccataat gtttcacaga atctatatgt gatattcagc 120
atctcatcat gaatttgata tcaaaagatg tcatggagag tgacagatga aaacactgaa 180
aatagagaat caggcccat gagcaacaaa gaaaaactca aggtgtaaaa taagaaactt 240
gaggagctac atcagacaat gaacaaaata acaagagggt cagatttgaa agatagtggg 300
tggcctggct aaaaaatttt aaatgataaa agtatattta gatcaagatt attcaaataa 360
ctgacaatag tataggttaag agtaccagaa taacagtaat ttcataccta tgacc 415

<210> 16220
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16220

tttctttggc taaattagtc taaactttcg taagctatgt aagctgagtc tagtccaaca 60
agagggatct aaggatgaaa cttagttaa gttagtctaa acctaggaag gctgtctaaa 120
ttaagcctat tccaacaaga gggatctgaa gacgaagctt ggattgattc agtctaacta 180
gggatcgagg tttagtaatt taggctacaa catagaacac aaaagcatga ttgattagag 240
aaacatcttt atatacatca gctgggttgt tagaaagacc caacaccttt acgtactgct 300
gtcaatctta cttacttgca ttnttactat ttttagccta gacttagttt aattctattc 360
taaactcatca attat 375

<210> 16221
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16221

tcgaggcggtt gactcaagtt attttctctg atatttgtga atgatttgaa ccaaagaggg 60
aagatctgat ctgagtagat gacatcatgg gtcaacaaga tgagagagaa aatgaaccaa 120
atatggggga aaggaaacta aataacgagc cattaacctg gaaactgatg aggcagtggc 180
tcatcaagca cgatttggat agacccaaat ttgccatgat gcgtcggttat gtttggaaga 240
ggattgcaca tcaagtacga gtcagataga ccaaagttga tcatgatgca ttgccacgtg 300
tgatggaggc cggcgatgca tgcaaaacca tgtatgcca agaatagcat gtgaaagtgc 360
atcttaactn tgatggctct gagaatttgt ggactaataa attgacatat acagcagttt 420
t 421

<210> 16222
<211> 474
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16222

gagtgggtcn cttttgatcc tttgaattgc cctgaacatc gacnaccgga aaancagact 60
cagctggaac aatatcatag gggacattgt cctcttgagg ggaactagca aagcactctc 120
accaaataca aaggcggcac cataaagtgg cgcaggtacg agtggtgaga atttacetga 180
ctacatgtgt gcggaaccac tatgatgcc tgagtgagt atatatgaca actctgggaa 240
cagagaatca ggctcgatga gccacaaaga gaatcttcaa gagtatagag tgaaacgttg 300
tgagctacat cagacactga gcgagatcac acgaggtgca gattggagag atattgtttg 360
gccagactaa aggcgttgca gtaataaag cctatataga tctagattaa tcttaaactg 420
gcgactatct tgtcaaagta ccaacaaaac aggacctggt gcctatgacc tgcg 474

<210> 16223
<211> 329
<212> DNA
<213> Glycine max

<400> 16223

agtcttgat attggctaaa catgatacat gtcatggcta ggtttgattc acggataaaa 60

agcatgcccc acaatatttc catgacacta atgcatatat gatgattcgg aaacttcatg 120
 caaaacttgt catgcatgca tctatgcgga cactcatatg actaattatt atgggtcatgt 180
 gatgctaggg ctcaggattc atttctctta tttttaatca acccaatgtt tccaaaatat 240
 gtacttttat caacttgtgc attcatccga gtccatateg ggcgtccggt atatttcaca 300
 gcattcacc cttcaggcgta gacacattt 329

<210> 16224
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 16224
 tctacctctc tgggcaatct tatgtggtgg atcttacctt caaaaccttt tgaccttcta 60
 ccattacctg caagcaaaca ttgtgttctg gagtaagctt gtcttcacaca gacaagtcga 120
 aatcgatttt tgggtcttca aaacctaaact ccacctttct ctccccatg acaactatgc 180
 agcttgcgga caacatgaac ggcttccca agattacaag gatgtcagta tcttcagaga 240
 tatccataac cacaaagtct gctgggaaga tcaaatgttg taccctgacc aacacttcaa 300
 tcactocaca ggacctggta atggagcggg cagctaattg cacagtcatt cgagtgggca 360
 taatctocaa ctctcccagc cttctgcaca tggagagtgg catcaaatta atgttggtc 420
 ccagatcaat catagcc 437

<210> 16225
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16225

atcttctcct tcaattttct ataaataggg ggagaagtga agtagaaaag ggttcagccc 60
 cttaggcact tctctctctt tcgaatttgc tgaggaaaat tatttccgtg aagaaaatcc 120
 aagctgaggc gcttctgtaa cgtttccgtg agtaattacg cgaagattct cgaccgttct 180
 tcaagattca ccgttcgttc ttcgtttttc tttagtcttc aatgggtaag tacctcaaac 240
 caagcttttc aattcattct atgtaccgt ggtgggtccac attntgtttc gtgtatttct 300

attctcattt tcatttactt tctatacccc cttttgacgt gcttaagcca tttatttaag 360
tcatttctcg cttaatctaa aaataa 386

<210> 16226
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16226

tgtaggatta tggngtacct atcacatgtg gtacttggtg gcggtcgggc gatgggtgcac 60
aacaagtttt ccacatccac aaagcgcgca taaaccacac atgcccctgt gagcccacct 120
acaactgagc tcacgtactc ccacgtagcc catatgctcg ctctctcaa caccgggtcc 180
ccatcaatgc tacgaagctt ccacaacatc caagtaaaac aacattcaaa cagcacaagc 240
tatcacagac gagcaaaaca gagcaaagtc agaaaactct gctcatacac caaccaacat 300
cacagctttt ctcaactaaa gaccccagta acaattcctt cgatccaatt cgттаaccgt 360
tggatcgact ccaaaattnt actggaagtt tatagtacat aagcctacat tgagaccggt 420
gggatctact agcaaact 438

<210> 16227
<211> 319
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16227

atctgcactt tattttataa atctatttat gtacaaagtg aagtaaccaa ataactaact 60
aactaactaa cttcactaat atatccagta actactcaga aggaaaggat ggacttaatc 120
gattaagccc atctaattcta cctaattaaa ctaattacac acagcaaaac ccaaattcgc 180
agccaatta ttgaagtgta gtgattctta gtttcaagcc caatttgacc cgcgaaatgg 240
tagaatgtcc aagcttattt gcgaaagata atacaaaatt gaatctattn ctctgagtct 300
ttcaagaact actcacatg 319

<210> 16228
<211> 435
<212> DNA

<213> Glycine max

<400> 16228

tgctaaccca tggaagctgc taatatctcc cacacttttt tgggggtgggt cattcttgga 60
tgaccttgat tttctcaggg tccacttgga cccattttct accaactaca aaacctaaga 120
agactatatt atctacacaa aaggtacact tctgtatatt tgcatagagg gagtttttac 180
taaggactga aagaacttgc cggagatgtc ctaagtgatc atctaggctc ctactgtaca 240
ctaaaatatt atcaaaataa acaactacaa atctacctat gaaatccctt aagacatgat 300
gcataagcct cataaagggtg cttggtgcat tagtgagccc aaaaggcatc actagccatt 360
catacaaacc aaacttggtc ttataagcgg tttccactc atcacccttg ttcactctga 420
tttggtgata accac 435

<210> 16229

<211> 347

<212> DNA

<213> Glycine max

<400> 16229

ttcttattat taagtcttat aagcctcata ggtcggctctg tatatatatt tatattattt 60
tttgataacc aatatatact tctattattt ttttgataca attaattttt tttaaaacta 120
acagactttg attacacatt actgctccat aactttcatt cttataatca agtaagactt 180
taattacaat ttaggtgtga gtcatatgtg ctcttttata tttctcatta tctttattgg 240
ctttcctatt actatgtttc ctttttcttt aactttctta ttacgttact acttcacagc 300
aaaggaatat taaagattta atgtgaagaa ggttttttaa aggacta 347

<210> 16230

<211> 440

<212> DNA

<213> Glycine max

<400> 16230

tgtaaaggat tgattagaaa agtgttcaag atttgtaatg attgattttt aatgcaaaac 60
aaagccttgc ttttatagac tcttcattgc tggtaagaa' ggccattcag aagagttata 120
acttttagaa aaacttaaaa accatttgaa aaagtcaaaa cccttttgaa gagttacatc 180

tttagatttt tcagaaacaa aacttggtta tcgattacca aatatgtgta atcgattaca 240
 caaagctttt gagtgaaaca atgtgactct tcaacttttaa attttgattt caacgttcaa 300
 ggacactggt aatcgattac aacccaaaaca ttgtaatcga ttacagcctt ttgaaaatat 360
 ttggaacggt gtaaattcag ttgaaaaca ttttcaaact cattttgcta ctggtaatcg 420
 attacaacaa tatggtaatc 440

<210> 16231
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 16231
 ttcttaacaa agtcaatgaa agaacaacaa catatcatgt gcttcattgt tatggttatc 60
 ttaatcatcg tttcaatatt ttaaaaaaat tatatatata cataagatta aatacttttt 120
 tatttttttag atttaatttt atttttctaaa tattcaaaaa atactttgat ttgttttcat 180
 atttttatta aataatttat catatggcat tatcaagtta atgttccaag ttagtcttac 240
 aattatatgt atttcattgt ttataaaatt ttaaaacata aataataata gatatcgata 300
 ctaaataaat aaaattattt tataaaatat attatatatt tcaatcatat taatcatagt 360
 tgtcatcaat atatgtatac a 381

<210> 16232
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16232

taccctaaca aataacaact cttattgcac cacatgacct ttgcaactcc caacacagaa 60
 tcacatccac accccaccag ataccctac ccccaaagtc tgcttctacg agtattcagt 120
 aattatttga ttacacgtgt gcagaactct ttgttgccaa actttattat ttggaacatt 180
 tttaggaaca tcacatatga ttgaacatgc agaaagagaa tttttaagat tctagagttt 240
 agtcatggtg aaatgaaatt gaatattgag attttaaaca catccaaaaa tgtggaatnt 300
 tttctttata atactaatgg tctagtggta aattatcttt tattattata ttctttatat 360
 taaaagtagg actatcataa ttctagtaat ataaaaattt gatact 406

<210> 16233
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 16233

gtcttttcgaa tcggctatca gatcaatcat tggtcgggac tgaatcacat ttaaaggtct 60
 ttatccctcc ttaaaaatat attctgtgaa aatcaaactc acatatagag aatatgtgcg 120
 tgcgtgtgtg tgtgcatata tatatatata tatatatata tatatatata tatatagata 180
 tataacttcat atgcatagac gtttctttcg tggcggacat agagtcgccc aaacacacat 240
 gtgcctgatg atcaacatta ttgagaggag agatagacca actaggatat ctgcgtcagat 300
 tgaaaccggt tatcacgacc ggatcggggg tcttttgaga gcgagtcacg agcattgtaa 360
 agacgaatta gtaag 375

<210> 16234
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16234

tgcttgaaga catgcaacga atgtaattat acatgtatat ttcattgtgct tttgtgctac 60
 gagcaacact ctgcctcaag acattttccaa ccttattaca aaagggtgctt ttgcacataa 120
 tattgtaaaa attgaaacca gttattgtaa ggattaatag aataaaaatg catcatcggtg 180
 atagccataa ccaaatagaca aatttctaaaa ggtgatgagc ttcacttctc aaaaaaacta 240
 acataacttt caggcattat agtcgccatt tggcagacat aaaataaatt aagtaaggaa 300
 atcataaagc agcctcgaca ttaataaata ggaaatatac attanataat gatatgttac 360
 ctcgttgata gcaagcac 378

<210> 16235
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 16235

ttctttagtg attatggggg acccgatcatg tgtggtacta ggtggcgatc gggcgatggg 60
 gcaaatcaac tctcccatat ccacaaatca aacatgaacc caccatcccc agttgcccac 120
 cttcaactga gctcacgtac cccacgtag cccttactct cgttcctctc agcaccgggt 180
 ccccatcaac cctccaagc ttccacaata tccaagcaat tcaatattca aacatcatga 240
 actaccctaa accaagaaaa cagggcagag gcagaaaact ctgccccaaa cacattccaa 300
 taccacaact ttccctactc aaatacccca gtaacattct cttcgttccg attcgctaac 360
 cgttggatcg actcgc 376

<210> 16236
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16236

tgtagaatgg ctagacatga tacatgtcag ggcttggttt gtttcaaggg taaaaaggga 60
 tgccccacat tatttccatg acacaaatgc aaaaatgatg atttggaac tttatgcaaa 120
 actggtcatg catgcatcta tgcggacact caaatgtcaa atttttatgg tcatgtgatg 180
 ctagggccca ggattcattt cctctatttt atatcaacc aatgtttcca aaatatgttc 240
 ttttatccat ttgtgcattc atccaagtcc atttcgggcg tccgggaaaa tttcacagca 300
 ttcacccttc aggtttacac acattntttc aaaaattggg tatgatcaat gaattttttt 360
 tttttttttt caaaagcatg ttggcttttc agctagacaa cttatttttc ttttttctc 419

<210> 16237
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16237

ttcttttatt ctctcccca aagggtgacc cataattggg acaactttac tatggtgat 60
 gctcgatgct gtattactaa aagacaagcc cccacatctc acatgttgtc caagagtagg 120
 ggtgttcaaa ttaacttggt ataaaaaaaa ttaaccatag atgtatataa ccaatttcat 180
 aataattgga taattaaaaa tatttataag tgtaactaa tttattgggt aagttaaagt 240

tgggttatatt aatttttggga tatgcctgga tgtatatattg ataaccggct atgataaaaag 300
 agatatttga taacagataa taatgcttan aacttaatac actatgtcgc ttcttctctt 360
 tggatatgcat aacatggt 378

<210> 16238
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 16238
 ttcttccact tcatgtttct tgtggtgtct ttcttcatgc tacagcttct gcccaaaatt 60
 cttttggttag cttcttgctt ttgagcatgc ttcgagccat atcaaggatt gttctatttt 120
 tcctttctgt cacaccattc tattaggggg atcttggaac tattaaggga catctgattc 180
 cattctcttc acagaactct ttggaaggga attctctctc ttggttagta ctcatggctt 240
 tgatcttttg actactttct ttctctatta tagctttgaa cttcttgaag gcggaagaaga 300
 ctttgattc tttctttaat acatatactc atgttttgct tgagaactaa cactgaaaa 360
 ggatgacata ggcactttta tctagtgagc atggcttgat tggcccacag acgtcaacat 420
 gtat 424

<210> 16239
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 16239
 tttcttgaac atcatttggt gatttgattc acttgtctct taacaccact tgacaccaat 60
 cataaacaaa gggagttttg ttgacccat aaacactatt aaaaaatact gggaactgga 120
 ctgctaataa tacagtagaa aaatctgcta tactgcaaata tttgttaaata tcttgaaaaa 180
 aaaacaatac tcaaatttac cccaccaca ttaacaataa ctgatacaag atgtagaatt 240
 tcatatgtta cagaccatat ggactgttga ccataatgag ctttatcata ctatagcatt 300
 taacagaact tgaccagatg ctcgagtacc acactactca tatgatgcta attcac 356

<210> 16240
 <211> 424
 <212> DNA

<213> Glycine max

<400> 16240

tagcacgcat ggtgtttatg ttggtggaaa taattttggt tctggccttt ctgtcatctt 60
caggggtccac accatcaggg agagacacca actttatgtg tgagtccatg atgactttgt 120
cattcccacc accacttgca ctcttcagtt tttcgtagtt ctcatctgaa ctcaagaggg 180
tgattttgca gccatatttg gccaaaacct gtgagaactg aagaagggggg ttcattgtgcc 240
ctaggattgg gtaaggcatt gcaagaaaat gtgagatacc catcataacg ggggtgagttg 300
gaatcttgca agtgaagcaa aatttactgg tgatacttag aacaatagct tctttgtgta 360
attcgaggtt gcgtgaatgg gttagttact ttgtggatat atatatggac ctgaatgcta 420
gctg 424

<210> 16241

<211> 369

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16241

ttcttgtagt ccaatcattc ataaacctgt ttcaaacatt tcacataaat attgttaatg 60
gtatatattta accaacttac atcctcagtt aacaaatgga acacctaata aatcaaattt 120
acttacatta gccacaactg tagtatggat atgttcaaac acttgtcacc taaaataagg 180
tcactaacat ctgtgtgtgt gatgaaaaag ccactcttga cattaggtat cccaaatttt 240
tccccatccc atgccaaactc aattggcttt tggtaaatat caaacaagtt ctttaccaac 300
tcttccaatg gataaactac agccactaca ttgtccattn tagcacattt aaccggtatg 360
ggcaaacgc 369

<210> 16242

<211> 417

<212> DNA

<213> Glycine max

<400> 16242

tctttgcgaa aacttccttg aaaagctata gcttatctaa acacacccat ctaaaaacaa 60
agatcacctc cttgagaagc ttccttgaga agctcgagct tagcaacaca caccctcta 120

ataactatgc tcacctcctt gagaagagaa gctagagctt agctacacac ccctattata 180
gctaagcgca cccccctgac aaaatacatg aaaatacaaa aaaaaagtcc ctactacaaa 240
gactactcaa aatgccttga aatacaaggc taaaacccta tactactaga atggccaaaa 300
tacaaggcca aaaagaagga aaaaacctat tctgatattt ataaagaaga gttgatccaa 360
ccttgaccca tgggctcaaa aagctaccct aagggttcag agaaccctag ggccttc 417

<210> 16243
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16243

ttcttatttt ataaaactat cactctcttt tatttattat ttttttctt ataaaataat 60
atatgactga caattatttt gacaggggaa gtaatatataa gatcacaca ataaggatca 120
accttgagtc tctatgtaaa ctatcaactt ttgtcactag gccggacata atggattaat 180
atgaaaaaca tttcatacca aaaatttagt atttcaaaaa tatgtttctt gccttgcaat 240
taaaaaatta tggatttatt tcattaaaat tttctattaa atgcgtaaga gaacatgaga 300
ataaactaaa ctcataagct attgtagtta ctttgtataa ttacactcta taattgcaac 360
ttanaaagac accaca 376

<210> 16244
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16244

taaactaata agtgaaagca aatgaatgat tttatatctc acacatgcct ttaagcaaga 60
acccttttag tttcaagggt aaatagtga taggcccacc ctacctcatg cagaagttga 120
aattaatctt ttaccaactt ggaaaaatag agacaaggat caaactatag accacatgat 180
cataaatgct ctaataccat atcatgaacc aactatccta aaagattact ttgttgggta 240
aaaacattta aatgctttta tatgtaacta gagtagcaac aaagcctagg gaaaaaaaag 300
gcaatccaat ctgaatgcaa atgaattaaa aaggaaaaag atcgaactac caaaaaatta 360

tagcagaagc caacacatgt cctatTTtga acagattntc aattacatac tacggataaa 420

aaa

423

<210> 16245
<211> 479
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16245

cgctcacgcn cnncttttga acctttgatt ctttgcacgc anagcgncan nnnnaactcn 60
ngacccggcg aggcgatatc agtagacctg aattgcaggc tttcttgctt tctctgcang 120
catactagag ccgtgacaca catttcgcct aaatagtgtt tatggaatat aacaaccaac 180
tgacatttct cagacaacga atggagacac ctaatcaatt ggatttactt acaatatcca 240
caactgtact atggccttgt gtgaacacgc ttgtcacctc aaagttcgtc actaacatat 300
gggtgtgaga cgaagaaaca atgtttgaca ttacgactcc catacatctt ccctacaatg 360
caactatatt ggcgctaggt aacatgaaac tagtactgtc caactcttcc catggtgaac 420
tacaccactc cattgacatt ttaaccattt aaacggctctg ggcaaacgcc tttgtgaat 479

<210> 16246
<211> 350
<212> DNA
<213> Glycine max
<400> 16246

caagagacac ctgcttgaga cacctccttg agaagctcga gcttatcaac acacaccctt 60
ctaataacta tgctcacctc cttgagaaga gaagctagag cttagctaca caccctatt 120
atagctaagc gcacccccct gacaaaatac atgaaaatac aaaaaaaaaag tgcctactac 180
aaatactgct cggaatgccc tgtaatacaa ggctaaaacc ctatactact agaatggccg 240
agatacaagg ccaaaaagaa ggcaaaaacc tattctgata ttataaaga agagatgatc 300
caaccttgac ccatgggctc aaaaagctac cctaagggtc atgagaaccc 350

<210> 16247
<211> 518
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16247

cccacccccg ctccaacttt aaaaaaaagg aagtgtttaa ccccgctgta tcactnacaa 60
acaaccacan nngcctgagc atgaatcttc gaaaccaagg cgaaacgact cgcaccggga 120
tctataagac gaccgttgct gcattcttga acaccagcga gaccacgtgc gagtgaatac 180
actgtgacga gatggaatac ttagaatcta accacgagtg acaggtagta taactaggac 240
ctggaagcaa acagaaggtc gtaaataaac ctcgaaagag agacccaaaac cgaatgatgc 300
tgtagaacaa tacagtgtc gcatagtaga caaaggcatg acgctaggag agagagtggga 360
ctacactcac accactgaac gcagcacgaa aagaacatat atacgggagc taaatatatg 420
gtgacactca cagcctatga gtacaccaa tggaggataa aaaagtatac taaaaggaga 480
accggtagaa gatatacata cggaccaacc agaccgcc 518

<210> 16248

<211> 322

<212> DNA

<213> Glycine max

<400> 16248

tgactacacc gtgattctaa gacttagtct ctcttcaaaa tttctgagag agcttaatct 60
tcatgggtgt tcactcttaa aggaaatctc actggaatga gaagacatga atacattgaa 120
tatatctggc accactatat gtgcattgtc gctatcaatg tcactctctcc ccaagcttac 180
atatttggat ttaagtgatt gtagattgat tgagagactt agccttcact caaaatctct 240
ctccaaactt aatctatgtg gttggccatc tctctcggaa atctcagcgg cgcccaggga 300
actgacgaat atctatttgt at 322

<210> 16249

<211> 385

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16249

agctttgagt ttattcaggc gacaatatct ttttactcgt atgtctgatt gagtcccgctc 60

atataacgag acgctcgaaa ttgaatgttg aagctctgag ccaattcaaa cgacaataac 120
 tttttactcg gatgtctgat tgaatcctgt catatatcga gacgctcgaa attgaatggt 180
 gaacctctga gcgaattcaa acgacaataa ctttttactc agatgtctga tatagtctcg 240
 taatatatcg agacgctcga aattgaatgt tgaagctctg agcaaattca aacgacaata 300
 actntttact cggatgtctg attgagtccc gtcatacatc gagacgctca naattgaatg 360
 ttgaagctct gaggaattc taacg 385

<210> 16250
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 16250

tcaacattca atttcgagcg tctcgatata tgacttgact caatcaaata tccgagaaaa 60
 aagttaatgt cgtttgaatt tgctcagagg ttcaacattc aatttcgagc gtctcgttat 120
 attaaaggac tcaatcagac atccgagtaa aaagatattg tcacctgaat tggctcagag 180
 cttcaacatt caatttcgag cgtctcgata tatgacggga ctcaatcaga catccgagta 240
 aaaagttatt gtcgtttgaa tttgctcaga gcttcaacat tcaattttga gcgtctcgat 300
 gtatgacggg actcaatcag acatccgagt aaaaagttat tgctggttga atttgctcag 360
 agcttcaaca ttcaatttcg agcgtctcga tatattacga gactatatca gacatctgag 420
 taaaaagtta tt 432

<210> 16251
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 16251

ttcttgtatt tgttatagga aggagtgcta gcaaacagcg gcactttttc tcattgggtg 60
 aaattcatgt tgatctcaca aatcgagaa caggacttac caaataggaa atgaaactta 120
 catatttagt ggacctacat gaatttcacg ggtaaagaa gtatattaga taatgtgttc 180
 ctgacatttc tcttgttata cttataatgc ctatactaca gtttttggtt ggaaaatgtc 240
 caggaacacc ttgcaagatc ctttatggcc gtgggcacat tcttggttc atcagccaag 300

ataatataag agttggggac atcatcatca aagatcaagt cagtattatg actctaatta 360
gtactgtgat tggttgggct ttatgtgct 389

<210> 16252
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16252

tatccaaact gaaacttcaa caaattaggc actgtctaata tcgttatatt ttcagtacac 60
aaaatcaaag tgatcaattc taaaagttat aacataaggt acattgatag ttccatccat 120
aaagggttta cttaaagttg cggatctgaa agtgggtccag ccatcaacga cacttctggt 180
gccagtaata actgtaacat cctttccatc gccaaacaga acaatattgg tcttataact 240
tgggatttca acattttcct cgtaagtccc ttctttgaca tagatcactg tcttaccagc 300
actgtcattt ggagcaaagt tgatagcctc agtgatgaag cttaaagtttc ccgttccatc 360
agcagccaca acaagctctc ctccatcatt gctntgcaag agacggcgaa cggttttcat 420
cgacaaccac aac 433

<210> 16253
<211> 386
<212> DNA
<213> Glycine max

<400> 16253

tgcattcttt gtcttctttg gatgctgact tgtggcaaga agccattaat gacgagatgg 60
attctttaga atctaacaag acctgacatt tagtagactt gcctcctggg tgcaaaccac 120
ttggttgtaa atgaatcttg aaaaagaaac taaaacctga tgggtactgtg gataaatata 180
aggctcgcct tgtagccaag gggttttaggc aaagagagaa tgtggatttc ttcgacacct 240
tttcaccagt tactagaata acatctattc ggggtgctaata atctcttggt tctattcaca 300
gtctagtagt acaccaaagt gatgttaaaa ttgctttatt aaatgggtgaa ttggaagagg 360
aaatctatat ggagcaacct gaaggg 386

<210> 16254
<211> 421

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 16254

 tctcaaggaa gctacctagt ctataaatag aagcttgtgt aacacttggt gtaactttga 60
 tgaatgagag tcttgtgaga cacaacttaa agttcaactt ctctcccttt ttcttccttc 120
 aatttcatgc tccccctctt ccctttctct ccctctttat ttctctccat tgaagcatcc 180
 tctccaagct tcttatccaa ggctcatctt ggtggtgaag ctcttcttct catggcatat 240
 tccttgggtg atggcgccct ctctcacgcg ttctcttttg tcttccgctg catctccatg 300
 gtggaaaatc accattaaag gacctcattg aagctcanag atccagcctc catagaagcc 360
 ccacaagcaa gcttccatca agtggtatca gagcacaaga gcttcaagta ggtgctcctt 420
 a 421

<210> 16255
 <211> 377
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 16255

 atctttgatc taccaccgcc accatcatct tagttntcta tcatgtttaa tattattagt 60
 actttgattt ctagccgtgt atttggtat attattatga catttgaaca atttagtatt 120
 tcttttattt gcataatatg attgaacaat tatgaattat gctttatgac tatgtggttt 180
 ttatatattt gatatatcca tgtttcttgc ttcattgatt gattagattt ttccaatgaa 240
 tgtcttgtga atgattagta atatatgtat gttttatatt tgttgcacac tttggctttt 300
 tgttgatgcc aaagggggag agaaatagga ttaaatacaag aactcacata agaaattaac 360
 ttaatttcaa gtgaagc 377

<210> 16256
 <211> 422
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 16256

ntgtgtaatc gattacacta ttttggtaat cgattaccag tgattgtttc tgaataaatc 60
aaaggatgta actcttcaaa aagtttttga ctttttcaaa ttggtttttag gtttttctaa 120
aagttataac tcttctaaat ggtcctcttg gcaagacatg aagagtctat aaaagcaagg 180
ctttgatttg cttttcaata tacttttcca atcaatctta taaaatcctt tacaagcctt 240
gaatctcttt gaactttctt ttcttctttg tgccaaaatc tttccaaagt tttctggttt 300
tctaaacctt gaaaacttgt gccattcatc ttttcattct cttctaccat tgccaaaaag 360
aatcgccaa gggctaacc cctgaattct ttttgtgtct ctcttctccc ttctccaaaa 420
ga 422

<210> 16257
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16257

ttcttacata tttaggttta agtgactaca cagtgtttca aagacttagt cttcattcaa 60
aatctctgag agaacttaat ctcaatgggt gttcatctct aaaggaaatc tcagtggaat 120
aagaggaaat gaatacattg aatttatctg gcaccactat atgtgcattt tcgctatcaa 180
tgtcatctct ccccaagctt acatatttgg atttaagtga ttgtagattg attgaaagac 240
ttagccttca ctcaaaatct ctctcaaaac ttaatctaag tggttgttca tctctcttgg 300
aaatctcagt ggcgtcagag gaaatgacaa atataaaatt gtattaaatg ctaagagaac 360
ttaatttana agattgt 377

<210> 16258
<211> 425
<212> DNA
<213> Glycine max

<400> 16258

taacccttct atagatcatg ttaaaacaca ccattatggt tgtgcaatta aggaaatact 60
gcaattatct gaagtgggtg caatcttgaa ggtgaacttt cataaaattt gtttggcaat 120
tatttcaagt gatgtctatt atcatcattc tactttataa acatattttc atatatgggtg 180
tatagcaact ataattagaa ttactgtagg ttgggaaaaa tgaaaatata tattctactt 240

gcttgtaaat ggcttaagtg aggctacaaa gatttttccc tttcttttta tccccctatt 300
 tttcttgct tagttctatg ttactttcat tttggaaatt tcttttatta atcttctaaa 360
 atatttctta cagaatcatg ggtgatgttc tacccttcaa gtcttcaaga gttaagattg 420
 agatt 425

<210> 16259
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 16259

ttcttgaagc attttttaca acagagagtt tcatctccag atcagggtgtt gattggccaa 60
 actgctaggc tatcaatttg aagttaagta caaacctggc ttagagaata gagccgctaa 120
 tgctctgtcc agatgtcatg gtgaggtaga aatgaattct attatttctt tccccctgtg 180
 ggctgataga cagaaacttt tggatgaaat aactaatgac ccgtacattc aaaagttact 240
 gaaagaagtg caggagtctc ctgatgttag acctgagttt cagggtgaaac atgggagtttt 300
 actttatcat ggcaggctgg tgatttcccc cgaatcacc tctattcctt ggctattgga 360
 agaatttcat agtactcct 379

<210> 16260
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 16260

atacctttca tcatggcatg ttgacataag ctcttttagtt gagggtaaaa tttgtcaaaa 60
 aagaaataat attcgacaaa aatataagag tttgagataa aatttgtcaa ataaataata 120
 ttatgatctt attaaaatgt ttaatggggc ttaattttta aaattttcta agttttctac 180
 cataggagct ctttttttca ccccatccat gttgtcacat gtgggtgaaa agaggaaaga 240
 gagggatggg atttctcttg ctttaagcat aacgggccaa agtgggaggc ccacacgaat 300
 gggtatttagc tcagtagtaa agtgtgtcct tgataattgt gtctgcttgg agtggagtga 360
 gacatgtcat tgaatagcaa ggagatagcc acttcgttat gaaattagaa aagttaagag 420
 ccct 424

<210> 16261
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 16261

ttctttgagg ttgagttgct tgcagctatc gcctgtcact ggaaagggaa ccttctctgt 60
 ctaactccaa gaaaaacaat tactaggggt tatactttat actaaggcac tttctatcgt 120
 ggaccccccc acatgcagag gcttccccat cccaagttca accctctcaa gaccaagcct 180
 cgaccactgc gacagaatca gttatagatc caattgagca gaaaattcaa gtagcaaaac 240
 ctctaaaatc attgtcatc cctaatttcg tccggggatt attatttgat gctatacaac 300
 ctttgattgg ccgcttcgag atacttggca ccctttgtta cacaatatgt gaagtcccga 360
 gac 363

<210> 16262
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16262

tgtgcctctt caggtccgga atatgaatgt agcttataga tccaaagacc cttaggtgct 60
 ttgctgatgg cttcttcccg ttccaagctt caattggagt catgtctttt acagacttag 120
 ttggacatct gttgagtatg taaacaacat tgtagattgc ttcagcccag aatgtgtag 180
 gtagtccctt ctcttgagc atcgatctag ccatttccat aactgtgcaa ttctttctct 240
 cggacactcc attttggttaa ggagaatatg cgactgtaag ttgtcgctca atgccttcat 300
 cctcacaaaa tctttcaaac tcgagagagg tgtactctnt gccgcgatca cttcttagta 360
 cttttatccg ttttccactt tgattntcag caagggcctt gaactttntg aatactccaa 420
 ag 422

<210> 16263
 <211> 511
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 16263

```
ccctcccgcc tctggatcta ataaaggag ttccaaacga ctatgcatca catccgcccc 60
gacncatgag cttgatgata cttgaccac agggcagtga ctcgtagagc gaaccaatag 120
atgcatttgg ggcattcact cacaaggaga tgcagctgcg ttcgagacgt aaagcagatc 180
acgataagca cccctagaca acaagacgtg aaggtgacta gccaaactatg acagaagaaa 240
caataagaac tactgtacat gcatagaacg aatgtgcaac catggatcaa gcaacatgaa 300
taggcggata ggaataacac cgacaatata tggttctgag gtgcatgatg ggacaacatt 360
agtgaagca atctcctgag aagggaagg aataaccgca tgtcatatgc ttgatgcaca 420
ctgaggctct atggtcgagc cttagggcga gagaaatatg atcaaaccgt gaactcacat 480
aagaagatat acttagttca agtgcagccc g 511
```

<210> 16264
<211> 162
<212> DNA
<213> Glycine max

<400> 16264

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aagcaaaaga catgcacacg taactagtta tgcgtagatg acagtgctac tatccgctat 60
agcaccagac ccaactccagc gtatggtcta tacaggcggtt attataatgc gacactattg 120
cctttgcaca gttattttcc ccatgagtgc caatgatatt at 162
```

<210> 16265
<211> 472
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16265

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cggcacacgn atgaagcatt gattgcctcc atngacatnc cgcnaangac accgggatac 60
tctagagatc tacctggagg catgcgtttc ttgctttctt tatcgagcgc ccgaatagag 120
aggaactcaa tatcacgtgc tgaatggaca aactggtagg ctgtcatacc gcagaatatc 180
accaaccgt cttaaacaga ttagcctgta atgctctgcc cacatgtcat ggggaggcac 240
aaaagaagtc tatcaattcg ttacctcgt gggctgatac accgaaacta ttggatgaaa 300
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004494105-104509

taaccaccga cccgtaccct cagacgtaac tgaacaagt gcatgagtcg tccgatgtca 360
gacccgagtc atatgtgaca catggagaat tactttatca tggcatgctg gtgaattccc 420
cacgaatgcc ctctattcct tggttattgg tagaattccc tacctcctcc cc 472

<210> 16266
<211> 493
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16266

gacactgacc ccagtgaagc gttgaanttg angtgttgac atccacaacn ttnanaatat 60
ccagacctca gtaacatctg actattatgc ctacacgatt ttcttttaggg aggcaagacg 120
caagaaggag atgggatcac ctctgcacca acagctccac acacaatcct gtctctcaaa 180
agtatgatga agctcccaa aaagatctag agagtctctg atatcgaacg atgtatctct 240
gagccaccat aggagacctt ttttttacct catgcatgct gacagatgcc ggtgaaaaca 300
cgatacacac gcatgggact tctcttgctt tacgcatatc cggcctacat cgggaggtcc 360
acagcaagggt gttatcagct tacccaatat attgagacct gtttaaagt cgtggcttag 420
acctgacgca atcaagtcac tcataagatc gagaggacgc cttgcgatac aataaacaat 480
cacgaggccc tct 493

<210> 16267
<211> 305
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16267

agcttgtgtt ttactcaaca tggatatgca tttgtgcttg tgatgcaaga aaattttcct 60
cgacgcaccc caactcatca ggatcattatg attacttgta aacttttttg gttatagata 120
taaatagaat tctaattatc ttaaatttta attcataaat gtacattaac agaatttana 180
aataaattat aatatagaag acactatatg gaaaatgcat ggattccata tggaagtggg 240
aacagacagc tgtatgactc tactatttac taattactat atgaataaac tctccccttg 300
cactc 305

<210> 16268
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16268

nttaaactaa tttaattatt gcttaagaat tttatattca tctatgatgc acttgccaat 60
 caatcaaac catgcacacg taagttggta tggatgatg attgtgccgc tttcactat 120
 tgcaaaagca ccttttcacg tcatggatc tacatcggtt atcaaaaacc gatgtaatac 180
 ataatgcagt gctattttcg taattaacgc caattatatt atgccgtcaa cgacggtttt 240
 agtgaaaccg cctttgattt taatcttact aaggcggttt tataaagacc gtcttagatt 300
 caagtgattt ttaattattt tttttattgg aaaatgattt ttaattataa aaactcatgt 360
 tggacactgt tcccatcttc gtaaacccta aatccctttt tatatatgca gttggcgaag 420
 aagcgagccg acaac 435

<210> 16269
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 16269

agctctagca tgtgtctccg tgatagaagc catttgatct ttttaaggctg ataggctcgac 60
 cttcatctgt tcttgactc cctcttcatt atccattttt ctggattgag tgttataagg 120
 gtgcctttgc gcttttttag ttatggcgag ttcctaaag aaacaaacaa tggtgagtat 180
 gccacaaaa catgaatatg ctaatgaatg atcagagcac ttggattcac ctcaaggcct 240
 tttatagata acgtgatgag tttcagaact tctctgtgta taaaaaggaa caaaactttt 300
 atctagccaa gatcatacca aagtgttata acagaacctt acggtttcta attatatggg 360
 ccatcaaatac tatcatgtgt tgacagtaat 390

<210> 16270
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 16270

tctacttatg tggcagagcg ggcttccttc actttcttgt ctcaaccgct agctttgacc 60
accgcccttc cttcccgcga tgcttctctt tacatctgcc tgagtgggct tatagcctaa 120
accatacttc ccacgatttc ctttggcatt tatcaggcca gttatgccgc cattgtccct 180
gcctaaaccc attccggggt cgtaaccgtt ccccaacata actcggggcca tcattactgc 240
tgcacgagac aggcaaggct gcctagagaa ggagtccacg gaggaaatgc ttaccacttc 300
aaaagactgg aaagcggttt ctaatgactc ctctgcggct tccacataag gcatagagga 360
tgggcagctc accaagatgt cttcctcgcc tgatacgatg accagatgcc cttccactac 420
gaatntcaac 430

<210> 16271

<211> 301

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16271

agcttcaacg ttcattntcg agcgtctcga taagttacgg gactcaatca tacattcgag 60
aaçaaagtta ttgtcgattg aattatctca caagttcaac attcaatttc gagcgtctcg 120
atatgttacg ggactcaatc agacatccga gggagaagtc attgtcgctc gtattggctc 180
acagcttgaa cgttcaattt cgagcgtctc tatatattac gagactcaat cccacatccg 240
aatacaaagt catggtcggt tgaatcgctt actagcttca ccattaaatt tctagcgttt 300
t 301

<210> 16272

<211> 295

<212> DNA

<213> Glycine max

<400> 16272

ctttagccaa ttcagacaac aataactttt tactcgtgat gtcttattga gtcccgaat 60
atatcgagac gctcgaaatt gaatgttgaa cctctgagca aactcaaacg acaataactt 120
tttactcgga tgtctgattg agtcccgtaa tatatcgaga ctctcgaaat tgaatgttga 180
atctctgagc caattcaaac gacaataaat ttttgctcgg atgtctgatt gagtcccgtg 240

atatatcgag acgctcgaaa ttgagtgtgg aatctctgag ccaattcaac gaaca 295

<210> 16273
<211> 389
<212> DNA
<213> Glycine max

<400> 16273

agcttttttt tcttatttca atagggatca acatgaagtc tatcaacata agttaattaa 60
ataagtgcctt aatcgagatt tttgaactaa atgtgcccta acatgagttc agtgatacaa 120
gcacactaga aaatgatgtc ataacatgta tcaattgaat gtttgaatgc aaaaccaatt 180
ttttgcatga agttctccag taccatcatt ttcaggggac ccgctgccac aatttaattt 240
caaaattgcc aatcggtaaa tcacatcatc tatactaagc tacgtaaaat tcatatacaa 300
ttaacaccac taatagaaca atgcatgaaa atcccctacc atgtaaagat gctgaataat 360
aatgtacaaa tcaactgcaga aacattgag 389

<210> 16274
<211> 446
<212> DNA
<213> Glycine max

<400> 16274

agcttaagct gtaacactga ttcataagaa tatgatactt tcttcccaca ctttcttccg 60
ctgagtatgc tggagctaag caagttacga ctcttttcta ctggaactgg gatacacctt 120
cccgactatg ttagcggcta tgcgtgctga cgttccatga ctggtggacg cacaccagcc 180
tactgaagaa actcgacaaa aagcgttgct gtctccagct gcataggtga actcttgaca 240
ttgacagtga actgttgccg aaatatggta ggaccaatgg tgtaaacatc agctatttaa 300
tttcacaggc gagttccata tgcatatgtc tctatcccga agccaactca tactccttag 360
tecctcacat caaaacaaag tccaagctct acaaaatatt aacaagtaac tctagatgtc 420
gcagcggaca taacttagat caagtt 446

<210> 16275
<211> 376
<212> DNA
<213> Glycine max

<400> 16275

tgcttcaaga atcaagtttc aaagaatcaa gattcaagaa caatcaagtt tcaagattca 60
atcaagtttc aagaatcaag atcaagattc aagactcaag attcaagaat caagagaaga 120
ctcaatcaag ataagtacta aaaaaagttt ttcaaaacat tgagtgcaca agaatttttc 180
acaaaatctt ttaccaaaaga gttttactct ctggtaatcg attaccagta gccaacattg 240
ttttcaaaac tgatttataa agctgtaatc gattaccatc atcatgtaat cgattacca 300
tgtttttagaa cgtagattt caaatttcaa gagtcacaac tagtgataaa acattttcag 360
atcattgtac acttgt 376

<210> 16276

<211> 421

<212> DNA

<213> Glycine max

<400> 16276

tgcttgagag gataccatga caaacaacat tggtttcctt ctacttccca aatacatata 60
aacagataag cccatatgaa ccaaagttt ttccatagaa atcatacaca ataattattat 120
gaggaataag gtcacagta gtcttaccac atcttctcag cataaatttt ggcagaatat 180
ttatagttgc tccatcatct accaatattt tgttgataat ttagtcctct accatggcag 240
tcaaatttag aggttcata tgagatttcg tctcatttgt tgggtggatca gaaacaacag 300
cattatgatg aaaggtaaaa caagacactt gagtcaccta aacaaccttt gtagttaaa 360
aatgatcttt gaaacactat tcccttgac aatcccttat cacatgatga gcttgatatt 420
c 421

<210> 16277

<211> 382

<212> DNA

<213> Glycine max

<400> 16277

ttcttatcaa cggtgaccca ctatccaaca ccataggett cttcatatta taaatattcc 60
tcagcgtcct cttcatcctc ataagaatac actagaacat cgtgaaacat gtcaacattg 120
gtacatcat ctaccactat gtcacccagt tcttgatacc aaagtcatta aaatgcttct 180

cataagattt aaacaaacga aacaacaata ccatatatca ttcattagtg ttaccacaaa 240
 aaatgttgac gatgcatcac caccattctc accatgtata tattcacccc ttccactcat 300
 atttgtcaca cattacacaa caaacttcct aagtcagtaa ggacaaacca gagcattaaa 360
 cgacatagtg tgttcatcat ta 382

<210> 16278
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 16278

atcttgtgga accatggagt ttagcctctt tgtgtacac ctatacagaa catgcatagt 60
 tgtcatagca gcctcacct ataaactatg aggaagattt ttctctttaa gcatgcttct 120
 aaccatgttc aagattgttc gattgcttct ttctacaatg ccattatgtt ggggggtgtaa 180
 tgagcagtta cttcatgaac tataccatgc tccttacaga aaccttcaaa ttctccagat 240
 gtgaattcac ctccaccatc tgttcttaag atgttaatgc attttccaga ttgcttcttc 300
 acaagagcta tgaagtcttt aaaaatgttg aacacatcac tcttggtt gattgggtag 360
 agccacacct tctgctaag atcatctaca aaagacacaa agtatctatt ctctcctaatt 420
 g 421

<210> 16279
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 16279

ttcttgacca atcccgaccc aaccgggca tagtcagtta gtgagaacct gtgatgtacc 60
 taaacaggcg agctcttggc agtcaaccga taaaagaaca aagaccacaa agcaaggggg 120
 cttgtgtggt ggctggccag ctgtgaatct tgtgtgatat atgggatatg gcctctggta 180
 atcgattacc aaggggtgggt aatcgattac aaggcttaaa agtgaagaca ggaagctaag 240
 atggcctctg gtaatcgatt accaaggctg tgtaatcgat taccaggctt aaagatagga 300
 tcaggaagtc gagatggctt ctggtaatcg attaccaagg ggtgtaatcg attaccaggc 360
 ttagaaatgg agacagtagg t 381

<210> 16280
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16280

nttgagtga acaatgtgac tcttcattnt taaatttgaa tttcaacggt caaggacact 60
 ggtaatcgat taccaaaaca ttgtaatcga ttacagcctt ttgaaaatat ttggaacatt 120
 gtaaattcag tttgaaaact ttttcaaact cattttgcca ctggtaatcg attacaacaa 180
 tatggtaatc gattaccaga gagtaaaaaac tctttggtaa atgtttgctc aaaaactcat 240
 gtgctattca aagttttgaa aaaacttttt aatacttata ttgattgagt cttttcttca 300
 ttctttaatc ttgagtcttg aatcttgatc ttgattcttg agatcttgag tcttgattnt 360
 tgattctagg ctttcttctt gagtcttgaa ttctccttga ttcttgaact cttgactt 418

<210> 16281
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 16281

ttcttgtctc aacgtttatg cgagacggag accaacatgc tagctatcat cgccaagtac 60
 cgagaagagt tagccatggc ccacgagcat agaatcgagg atgagtatgc tcaagtatat 120
 gcggaaaaag aggctagagg aagggtgatc gactctttac accaagaggc aacctgtgg 180
 atggaccggt ttgctcttac cttgaacggg agtcaagaac ttccccgatt gttagccaag 240
 gccaaaggcga tggcagacac ctactccacc ccogaagaga ttcatgggct tctcggctat 300
 tgtcagcata tgatagactt aatggccac ataattagaa atcgtttaga aacttgtag 360
 gtctctcaga ccttgactag a 381

<210> 16282
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 16282

tccttaagaa gattcctaga gtagctagag cttatctaca cacaccctc taatagctaa 60
gctcacttcc ttgagatgag aagctagagc ttagctacac acacccccct ataatagcta 120
agaacacctc catgccaaaa tacatgaaaa tacgaaaaag tccctactac aaagactact 180
caaattacct tgaaatacaa ggctaaaatc ctatactact agaatggcca aaatacaagg 240
cccaaaagaa ggaaaaacct attctaatat ttacaaagaa gagtggaccc aaccttggcc 300
catgggctca aaaatctacc ccgagggttca tgagaacctt agggccttct tttgcagctc 360
tagcctaate ctcttggagt attctatcaa atacccttaa ggggtaggat tgcatacaca 420
gatcaagt 428

<210> 16283
<211> 364
<212> DNA
<213> Glycine max

<400> 16283
ttcttttttg aggatcttgc ggactgctg tgatcata cctttaatgc cttctcctac 60
aatcctgaac agcagaggaa ctaggggata cccttgactc cacaccattg ttgttgataa 120
accttagagg ggatacgcac taatcccacc tcacatagat gctgattcgt tgcttgctga 180
tataccggac cggtcttttg tgcataacct cagtctaac aacatatata ccaaaactga 240
cccagacact gccacgatcg ccttttttaa attcaccttg aagatagtca ttggatactt 300
gctattgctt gcttctcaa ccacctcatt gataatcaca tgactctgga agatatgcct 360
acct 364

<210> 16284
<211> 418
<212> DNA
<213> Glycine max

<400> 16284
cgcatgtcta taagatggct gcatgcggaa ccacacctg atgaaggag gctgccactc 60
tctctggctg gtctgacct cttcgactgt gagaaagcta aagaaactgg actacatggg 120
gctgtgtaag ctctcctatg tcacgcgact gaggcttgaa gactgccccac acctaccaca 180
gctaccagag gaggggtctt ccacatccag atcatatcta cttattatat gctgccccac 240

cctcgagcag cggtgccaga accacagagg cgacgactgg ccaaagattg ctcacagtta 300
 cagcacttcc agacccctgc ataatttgat agaatcacgg taatgatgct gattctcaag 360
 aatcatcatc aaactttttc ttttatagta gatctgaatt atcatgaacc ttctacac 418

<210> 16285
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 16285
 tttcttgtgt ctgaaaaatg tggttgttgg ggcattaaat gcgtgcattc aatgcacata 60
 cttcttcatg ctagaaaacc actctttgtc actcgtgtct tgaacactac aataggaaac 120
 cacttccttt tgtgttagaa catgtttggg caatagaact cttcttttga tggaaattga 180
 aaaatttttag aacttgactt catttattct tcatatgatt cgataaatca taggagaatg 240
 tctttgcaaa atagatctta aacacagagt attaaatgaa gtctaataa aactctaata 300
 ttgtatcaga tcatgattac atcttgctac tatctggaac atcatagca aacttctggg 360
 aacatgt 367

<210> 16286
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 16286
 ttaaaatttg aggccactca taatttattt cactgttttg actaataatc taattaaaat 60
 ggcgaggagc atgtgagggg attctaattg ttgtcctatt caaacatatg ttagtaaaag 120
 gggtatttct atgtgcgtag tgatcctatt atgatatatg ataccatttt caaaactaga 180
 cacacaagga tttctatagt gataactttc atgaaattac attaagagat gattgatata 240
 ttgattttat aagatgatgg tactgcaatg caataaaata agcatgtgct acttttttat 300
 ttattatgaa ttatgtggat ttttacttgg actttgggat accatttcat gaactagatt 360
 ccttatgctt attggatgat gttacatgat aatttattat gtgattgctt ctataatgag 420
 a 421

<210> 16287

<211> 359
 <212> DNA
 <213> Glycine max

<400> 16287

tgctgtctta gcacagaaga tcacatgtcg gagagtatta ctgaacttct cataggcacg 60
 gatgatggca tgctattgaa gataatccga tgaaatagca atatccatgg ctctatgcgg 120
 ccgaggcagc cgctggacag cgctgaatct ggtgatatca ctgtgatgat gacaatcggg 180
 atcgacatcg gatgggtgct catgcactac tagggactcc ttgtgatgag atgcacaccc 240
 atggactgag gcaatatatt tgcgaggcag ggtgttcaag ataccagctt cattgataga 300
 ctgagagcgc atgaggtgct cgggttcatt aaagcactgg agcggttatct aacgcccatt 359

<210> 16288
 <211> 292
 <212> DNA
 <213> Glycine max

<400> 16288

tgcatgatgt acattctcca cggtgcttat tcatattcta cgtgacacga tcttgatctt 60
 gatgatacta cactggcgcc atcaaattac tctaaccgga atatactcac atgaaatagc 120
 ctaacccttc gagatctatt cttgactcct aaccagactg gttataagtg agctgcacta 180
 tgcacaagag acaccattaa ctagataact gcgcattatg tctagacatg cacacatgta 240
 gctgctctag caaggactaa agacttcaag cattttccag tacgcaaaac ct 292

<210> 16289
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 16289

ttcttggaag catgctatga tgctgatggt agaaaaatta aatacgacag gaactaatac 60
 ctgtacaata gaggaatgaa ggtagaagtt gtgaggcaca agagttgctc ctaatagact 120
 catcagcaca aatgcactct cccactcaa ctttgttagt attccattaa tggataatgg 180
 aatgtctggt tgattaatga gtgttccaag tacaacgaa agaaatacaa aacctgacac 240
 aaacaggccc aggatcttca ccttctcaat gtcttagaga aaggatatat cataagtgtg 300

ttgtcgggtca acagagattc atgaataaac aaataatgat acttaccagg agggcatata 360
gaaggagatg 370

<210> 16290
<211> 373
<212> DNA
<213> Glycine max

<400> 16290

acacccgctt tttccttatac tttaacaaga acgaacgaga aaagcataaa caaatatttc 60
aactgcccac tggccttaac gogaataagg gagtgcgatac atagcctact aaagcgtgtc 120
acgatttatg tggacgaatt gaatgactaa gctacatatg ttgcccgaat gatgtagatg 180
gaatgataca gatgtcgttt gatttgaaga atgggttgatc attacattag ataagggtgaa 240
agatagtact tatgtactct agtctcaatc tcaattgatc cacatcgaaa tgcgagctta 300
agactttata atgagtgggt tataatgcgt tgcgtgagca gttatagatt caggtgcatt 360
aaattaatct tac 373

<210> 16291
<211> 372
<212> DNA
<213> Glycine max

<400> 16291

tttcttttgt ccatgcattc cttaaagttg gaacagtgtc ctaacaacag aatttctcac 60
ttgcaaaaca aaactttcag taccagaaaag cttaaacatc cagcaacaac aatagtagag 120
agaaatataa gtttgatggc ctattgaaat gggttttgtt ctattgtcca aatttcccta 180
atcgggtatac aagtagtaga gagaaatgga agtttgaagg tctattttaa tgggttgaag 240
ttgtaacatt tatttaggga gaacattagg tttatgaatt atgggtcttct tcgtcatgca 300
atgaaaccca atcttgatac acaatagacc caaggaatga agcctagatt tctgctatat 360
tatgatctct tt 372

<210> 16292
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 16292

nttgagggttc tggaataatt gattatcaaa tgaggtaatt gattgtttcg tcacacaaaa 60
 agcttataaa gtttccagac acaatctaata cgattactaa atgtggtaat tgattatctc 120
 gagccacaaa gtcttcttctc ttctaaaact ggctttataa tcaattacta aattgataat 180
 tgattaattc gatgacttta gccaaatttg aaatagaagt gacttttagcc aaattaagca 240
 acacatacac caattaaccc cttgttcatt aagcacaaac ataatttaag cacataggca 300
 attaattgaa cacgaagtgt gcacagatta acagaatgca tgtggggttaa ttggtgaagg 360
 gaaaaccgat atgagagcac cattaaaaat 390

<210> 16293
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 16293

tatctttgga ttcagaggaa cagatgatcc tcccgggaatc actgcaagta aattatccca 60
 tcctctcga atacctccac agtgctctc tatcaactcc ttcagtggaa tactcatttc 120
 ctctcaaca gtgcaaggct tgttcacatg ccccgacaca caaaacaact ttgtcccagc 180
 attgttcttc ctacaaaac tggcaaacca ttcaggccca cgccttagaa tggttggaga 240
 aacagcaaca gtttccacat ttgtgacagt ggtaggacat ccatacaacc cagcattggc 300
 tgggaagggc ggcttcaatc ttggtttacc ttgtttccct tcaagactct ccaagagggc 360
 tgtttctca ccacaaata 379

<210> 16294
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16294

tgtaaagaa cgacgtaatc attaatcact agttgttaat tatcactaga gttatttatg 60
 cattaaagac tatagcaaca aaaagaaagt cgtattcccc agtcagaaaa aaaatggtat 120
 ttgctcgagt catacgatca agtctcgta cttcagatat aaatataagg agaatatcca 180

acaatggtat gaaattatgt cgtatacctt ttcttcaata tggatttaag caccagcct 240
tctaagaaag tatatagatg gtttgctaga agatgaaagg aaaattaaat ttgtgtttat 300
gatacaagaa aaacaggctg aatgaaagt tctcaaggga tgagaactga aaaaagaaag 360
atatttcac tatanattatg ttctcttaac acaattagtt ttatgtacat tataaa 416

<210> 16295
<211> 378
<212> DNA
<213> Glycine max

<400> 16295
gtgctttcat ctagccaaga ttatacaaag gtgttacaag agaacctaac ggtttctaata 60
tatttgggag atcaaatac tcatgtgttg atagtaattg attagcccat gaatctcttc 120
gggggcccga cacacttcgg ccatggcttt tgctttggct aatagacgag ggaggtcttg 180
acttccattc aagggtcaagg cgaacctatc catccacata gtcgcttctt gatgcaatgc 240
atcaatcacc ctccctcttg cttctttttc ggcgtacact tgtgcaaaat cctccactag 300
cttttgttca tgggcccag actgggtcaa ctcttccttg tattgcccta tgatagctag 360
catgctttgc tccgtggc 378

<210> 16296
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16296

tataagaaca aaattgccta aatcatttcc aaatatgcat gtaaattatg aagcatcaac 60
aagaatcaag ccaaggctat tgtgcaagca atcaatgggg caaaacacac caaaagatta 120
tgatgatgga tggctcaaata tctcacaag gtaaacttat cactttcaaa actatcatga 180
catgtagagg aaaaacaagg atttcaaata acaaaatgtc aagagactnt tattttaaga 240
acaattacc attatttgaa catatcctat aattcaaaga aaaatatgca aagttgttca 300
tgcaacaaa attgacctaa aatattaaac tagaaaccca acaaagctaa caaaactaac 360
aaatttaaca caaacaacac taacaaaact agcaaaacca aaaccaaaga acacttcccc 420
cc 422

<210> 16297
 <211> 230
 <212> DNA
 <213> Glycine max

<400> 16297

gccgacaagt tgggacctca tccaatgtct cacctttgca aggagctatg ctccagcgat 60
 ttgactaatg aataccctaa ccattctaca ctaattaatc tactatatac gccttctcca 120
 caataatcta attaagatta tgacatacat cgcattaggt atgagtcttg catgtactat 180
 ccctcattcc gcactaattg acgacgaccg tgggtgagaca aaaatcatga 230

<210> 16298
 <211> 505
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16298

caccatactc cactcacgcg cacactcggg acactccaga ctacactaca aaaacaacag 60
 acagcggtttt gatcgatcca ttgcagngca cctatanaac actcaagctc gagccaataa 120
 tgccatgttg agggccaaac cggctctgta tgtcagaacc tatgcactta aatcacaggg 180
 ccgcgacaag gagccaaccc acgcaccaat acactcaacc agattaaacg agcctaaaca 240
 acgcccact cacactggac ggaagtaaca tggaacaata gggggacgaa cctaccaaga 300
 aacatcatcc gggacaagaa caaaataacg acatgtcgcg caggcacacc gagaacaaca 360
 ttactcaccg tgaccgaaga tctctcacc cgcgcccaat ggacatagtc catccgtatc 420
 cgcacaacgc cgaactttcc acagggacga tcatgaagcc agaactaatg aaccaagaac 480
 aatctagcaa gctaaaagaa cacgc 505

<210> 16299
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16299

ttcttggcat ttccaatggt ggaaggacct tanaagactt tataatcagc ctgatttcca 60

cagtatccac cagaatatgg tatggaaggt tggttgtggg gacaaaatca aattttggca 120
 agattcttgg ctgagtgagg actgtaatct tcagcagcag aagtataatc aactcttcat 180
 gatcagtaga cagcaaaatc tttccatttc taagatggga aaactttctc agaacgtatg 240
 gagctgggag ttcaagtgga gaaggagatt atttgaccat gaggtagcgt tggctgttga 300
 tttcatggat gaaatttctg atatctctat ccagcatcag gttcacgata ccatgctttg 360
 gaaagctgat tctagtg 377

<210> 16300
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16300

ttgcagcgta tgccactcta ctctaaattc ttgtttgata tgtaacaag gaagcataaa 60
 tatattcatc aagaaaacat catagtgtaa ggaaactgca gtgctatgat ccaaaagatc 120
 cttccaccca agcataaaga tcttgggagt gtaactattc cttgttcaat tggagaagtc 180
 aatgtgggaa aagctcttat tgacctgnga gctagtatca atttgatgcc attctccatg 240
 tgcagaagat tgggagagtt ggaaataatg cccattcgaa tgactttaca actagctgac 300
 cgctccatta gcaggccata tggagtaatt gaagatgtgt tggtcagagt aaaacattnt 360
 atcttcccgg cagactttgt ggtgatggat atctctgaag atactgacat ctttgaata 420
 tt 422

<210> 16301
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16301

cgagtggtn ntttgatgca tgatacatga gcgacttcag ctcgtaaccg ggataactcta 60
 gattgacctg catggacggt ttccttggat tctgcggaac cgatgatcgc aacggggctt 120
 ctgctccata aatcttccat cctacacgaa taccttcacg tcgactaatg tataaacatc 180
 tctagtggaa aatcctctat actcataaca gtgcagaggg tcgataaaat atcctcttat 240

tccattcgac ctgagtcac caatggcgta ttcctatcca taaaggatat ggaagcatgc 300
 aacgagtctt taaatgtgtg gacaatgaac caccgattcc agcagtgtgt aaggggtgctg 360
 aaatctagtc taactagcgt tggaagggaa aggcagtttc aaccctgcta tagcttgtga 420
 acgatata caatactgga cggctctacc tccccgatac ac 462

<210> 16302
 <211> 337
 <212> DNA
 <213> Glycine max

<400> 16302
 gaggaattat ctgcttcagg cccttaatcc gctggaggaa gagctcttac atcccagttt 60
 gttttcttac gaccacggg aagacttccg cacatgcagc gctcccagtg aaataaaggc 120
 ttgcccttct acgatagtta cgccggcgat tttgtacgaa gctcccctgg gacgaaattg 180
 ccctaccttt ctcatgtgtt aagaccacct cctaatagcc ccagcgtgtc aaacaacgat 240
 attcagtcgt ttcgatctaa cccccgtcca atatcaaggc ggggcgacat gaagataccc 300
 ttaaacgctt taccctaaaat ctggcttcca tctgacc 337

<210> 16303
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 16303
 ttcttgaat aaaaaacaag taaataatct ttacttagag atgaactaac atcttttgtc 60
 tgacccaaac gatgagctct atccatcgcc tgtagatcca atgttggtt ccaatcactc 120
 tcgtaaaata tgactgtgtc agcagctgtc aagttgatac ccaatccacc agctcttgta 180
 ctcagtaaga acacaaaaat atcactcctg aaacagagat ataaagaaac aagtcattct 240
 cagtagtctc accaaagtag acacattaaa gcatgacaac acagacatta cctgtgctgg 300
 aagtctctaa ccatgtctct gcgatcctga atagtggatg acccatcaag tctaaaatat 360
 ctatat 366

<210> 16304
 <211> 393

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16304

tgtcaaaaag ggaagcaagt tagaaactct tttcttagca agaacattgt ttctacttcg 60
 aaacccttg aactacttca cactgattta tttggtcct ctagaactat gagtttgggt 120
 tgtaattact atggcttagt tatagtagat gattactcaa cgttcacatg gactttgttt 180
 ttgaaaacaa aaaatgaagc ttttgatgct tttcgcaaac ttgccaaggt gattcaaaat 240
 gaaatacgtc ttaacattgt ttcacttaga agtgatcatg aagggtgaatt tcaaaatgag 300
 tcttttgaaa tattttgtga agaaaatgga atttaccaca attnttctgc cccaagaaca 360
 cccaacaaa atggtgttgt ggagaggaga aat 393

<210> 16305
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 16305
 ttcttcatac aattaatata aaacctatat cctaattgtca catcctatca gagcgttgtg 60
 tccccgtgtc ctctagcatg aggttcttca tagtcatcca cctattcatc tgctcccccg 120
 aacacacgtt caagatcatc acaggatcca aacacaacaa cacacaggga gtgagttatc 180
 acattcctag ctaatagaga aacaagacaa ttaaataac atattatata aatgagatac 240
 tacttgctta aacataactc acgtaatttc atcacgttgt cattcaaaat tcactttcaa 300
 tcatcaatca cattacacaa gaatctcaca ctccaatcaa gatataataa cacatcaatt 360
 tcataataa 369

<210> 16306
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 16306
 tatcaatgtg gcagttccgg ggaccattgt ctaattggcg atcaatacaa aaaaaatact 60
 caatccatgg gaaaggaatg aaaatcacac actttgcctc aactctgcta aagcaattgg 120

atgtacagta gtcaacattg gcaccagga cttcattgaa ggaagggtat gctttaggc 180
attcaagttt ccaccataa aagcagaatt attgtgggcg tgtacactgc agaacaacaa 240
aatttaagat taaatttaatt ttataaatga aatcctttgt taagttatga aataggaatt 300
tttttattct aaaatcaaatt cctttgggtca gaaagttata agaatttttt cttttttttt 360
ttttaattta ggtgtgatac tacaaaaaat ctggcaaatt tgatatttct 410

<210> 16307
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16307

ttcttgtttg gtgttttatt ctcttctttt cttttgttat ttcttctctt tttttctttt 60
tttttgcctt ttcttctttt ttttaattgat cctttttgat ttcttctctt ttcttttcat 120
ttcttttttc ttttctttt ttttcttaatt actttttctt ttcttctatt ttttcatttt 180
ttttattatt ttcggatccg cataaaatta gggctcgaca aagagaataa aaacataatt 240
attctattaa ttatcataat tgtaattctt actcttttcc cacttttagat gttaattagc 300
atctgggtata tatccaccat tnttctttac ttatttatca tatacggata taggttcata 360
agggg 365

<210> 16308
<211> 380
<212> DNA
<213> Glycine max

<400> 16308

tcagggattt caaattctgc ctgacaaata ataaattatg ttgtattgta agtaaataac 60
aaatttagac tattaagaa aatcaacaaa gaaaactcac atacctgaat atcctcccat 120
atcaaatcct tctaagcagt agggacttcc ttccagttgt catatgtgac gtcgacctta 180
tcatgagcga aaatccccc aaatgttctt aatttcttca tgtggggact gtcggccttg 240
ccggtagcag aatcgacgtt gaccgcaggt ctttctgccc caggtggtct agtggccaat 300
aatcgtaacc gtgttgctt gcgtgtccgc ttcaatgtag atggaaacgg ttatgcgtct 360
gcaggaagag gaggcgagac 380

<210> 16309
 <211> 342
 <212> DNA
 <213> Glycine max

<400> 16309

ttcgcacgtc ttcttctagc caaatggact taccttgaat taattccttt gatagccctt 60
 ttgagcgttg tttccctttc cttgttttga agctcactac aagccttaaa tgaaaaacca 120
 tgatatcacc atatccttaa ggaattttgt aactttggaa ttgttttggg aataagtgtg 180
 ggggtttttg tttcattgga taatatgtta gttggctatg cttcatgatg tatttttggg 240
 ccatacttga tgtacattgt atattggcta aatgttggac atgctgaatg aaatgctgta 300
 tctcaaatgt ttcttgtttc aaaaaagata agaaaagaaa at 342

<210> 16310
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 16310

gtgacctata aaactcagct tatgatgatg aatcagttga ttcagttgtt ttatgatgac 60
 taagatgatg acaaaaagcc caaagaatga tttcaagatt caagagaaga agaattcaag 120
 attcaagaga agaaatcaag aagacttcac aagggaagta ttgaaaagat ttttcaaaaa 180
 acaaacatag cacaattttg tttttcaaaa gagtttttct caaaattttc aaagttacca 240
 gagtttttac tctctagtaa tcgattacca gtttcctgta atcgattacc agtggcaaag 300
 tttgatttca aaagttttta actgaatttg caacattcca attgtttttt aaatggtgta 360
 atcaattaca atatattggt aatcgattac cattgtattt gaacgttgaa attcaaattc 420
 aattgtgaag agtcacatc 439

<210> 16311
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 16311

tgctcttaaa ctctatacaa gaatgaagtt ctgataccac tcgatagaca ggtggcctca 60

gatatcttta agaatggggg ttttgaatta agatatcaaa gactattctc caattaaaat 120
 ttttaactctc ttcttgagtt agaaatttac ccttaatatg aattactcaa aagataattt 180
 agagtaaact tctttatagc caatgataga tgacgatata taaaagaagt ttaagggaaa 240
 agagaatgcc aactcatgtg ttatactggg tcaggcacac cctatgcgct acgtacagtc 300
 tccaagcagc ccgcttgaga t 321

<210> 16312
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 16312

tgcatccact agaagagaat aaacatgtga ttagaacttt gactgaaaat gttagtcagt 60
 ttgtcagatt gattgtgaag gaatgcattg accgtatccc ggtgagagtg tgatcctaaa 120
 attttgagag aaacgactat catttagtac taatttttgc atgaacctct gaagtatgga 180
 ctgaatgcat gaaattgagg atgatgaagg ccatgtttga ttgtgatagt cacttagcca 240
 aaaagctgac catgtgcttg aatgattcat ccctggcacc cagtttgagc tgaatgaatt 300
 attgattgat tgaaccttga gcctatacag tgttatctcc tactaccttg tgttacgttg 360
 taggagagca tcatccacag gaagct. 386

<210> 16313
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 16313

tgcttgtaaa gcaggtagg cgcacgccta attattttta atttttataa agacaaatgt 60
 tataagaagt gaggctgaat tatgattcta gaagaagaaa aattaaagcc tttttttgaa 120
 aaaaaaaagt taacgtttta agaaaaactt tgtaagaaaa ataataaatt ttacaaaaa 180
 cttgtttaga caatgaaaat agatttcgca gaacataaag tattttcaag atgaaatgaa 240
 attcaaacc cttatattaat ttaaagcaaa agataaatac aattaagaca tataagatat 300
 aaagaattat actagtttat ctttaccact aaggctatgt ttaagttttg attaactact 360
 aagtttcac 369

<210> 16314
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 16314

tggtgcaaaa tgtcggcatg aagtcactcg tgatttatgt tctataagag attgtgttta 60
 cagttccttg aacctgattg ttaattttac attgaagaat atgtggggat ttaaaaataa 120
 taacacttgt ttaaagctta ttgagaaggt gaattcaata tcaaaatatt agcacatttg 180
 atcttctgca acacttatag actagagatt agagattaat tcacatttcg caatcatggg 240
 tagcaactct tggacagctt gtggattgat agaacaaaag taatgtaaag gcaaaaagaa 300
 cttgactaga aacatatgtg atgaactaag gtctacgcta atactggcaa aaatgtcact 360
 gttttttttt tttaaataat gcttttataa ccattctaaa aagct 405

<210> 16315
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 16315

tgctttgagc caaaatcctg actcaccata aaccttgacc cagggtgaga atgccaatcc 60
 ttaccctcgg aagcaaaaaa agaataagagg ggaaatttcc aatcaaagaa aaagagaagg 120
 aaaatttcca atgaaagcaa aaaagaaatg aaggaaaatt cccaatcaa agagtggggag 180
 aaagcaaaaa aaggaaaaga aggaaaattc cccaatcaaa gagtggggaga aagcaaaaag 240
 aaaagaaagg aaaattccca atcaaagaat gggagaaagt aaaaaaggaa gaagaagaag 300
 gaaagaaagc tctgatcaa ggatcgaaag aaaccagaag aaatgtgcag agaggtcttt 360
 ggaccagaca atatctgaac cgta 384

<210> 16316
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 16316

tcaagtgata cagacagtga aatcactttt gatgtgcttg ccacatccta tagagaacta 60

tgcacaaaa gtgagaagat tcttcagcaa gaagcacaac tgaagaaggt cattgcaaat 120
 ctggaggctg agaaggaggc acatgaagag gaaatctctg aacttaaagg agaaattggc 180
 tttctgaatt ctaaactgga aaatatgaca aagtcaataa agatgctgaa taaagggtca 240
 gatgtgcttg atgaggtgct acagcttggg aagaatgttg gaaaccagag aggacttgga 300
 tttaatcata agtctgctgg cagaacaacc atgacagaat ttgttcctgc caaaaacagc 360
 actggagcca cgatgtcaca acatcgggtc cgacatcatg gaacgcagca gaaaaggagc 420
 aaa 423

<210> 16317
 <211> 165
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16317

agagcttttag tttgaatgca cacaatctga ccaaggcgca gaactttctt gagcacactt 60
 tctatgacaa anaggagatt caactccatt tgcttagatc tcaatgacag gatacgagtc 120
 aaggagacta tgctaagatt gtcacggtaa acaaatgggg ggggg 165

<210> 16318
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 16318

cttctcttct gttcactgga tcgggttcca ggatttgatt ggtaggttca gtaagggttg 60
 tgttgatctg caccaagatg cttaatttgc gttgaaaaat tcattcattt gcgagactcg 120
 gcatcggaat tgaaccagtt agttgaaagt tcaacgacta ctcaaagggt atctagagtt 180
 caagctccac tggtataaag tcctttccct ccaatttttt tatctgcata ttagttttct 240
 tcttttgaat agtataattt ttctccattt ttcagttgca gctttctttt ctttttattt 300
 ttttgtgtgt ggataaaagg ttcgatttgc cagcgtctgt cttgaggggt tggttaactt 360
 gagttcctat cattctctgc ttgtgtttgg aagagaggca gagaactaag ttgtaac 417

<210> 16319

<211> 372
 <212> DNA
 <213> Glycine max

<400> 16319

tagcttatat gatatttcat gatcaaggga atgctctttg attagccggt gtgtgtgact 60
 gaaaatcttg atgaggatac ctcatcgcca aactatgtga aagctggaag atgggaaaca 120
 acggctgtat gtgtcgggat aaacatgaca ccacttgtc ttagccctat tttagtttaa 180
 gttgatcgag cacttgagta tacgtcgaaa ttattatact gcaaaactac attaatgcat 240
 agaccaagtg aataccgtac gtgccattcg catattcttt ggcatatatt atccattctt 300
 taattaaaca aatgccgaat taactaatca caatatcaaa ctgatgcgcc tagaagaata 360
 tatattactt ac 372

<210> 16320
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 16320

gcttcttcac aagtacttgc tggagaaaaa gataagttta ttatttgaaa tatgtttctt 60
 ctacctaaca cattggttaag gatgtttaag ccgtatacaa ttgctggcaa tacatacatt 120
 atgaaagaaa atcaatcaaa tgaccaaact gcttggcaat gacacataaa tgtatcacac 180
 atctattgtg ctgtattcaa gaaaaatcaa gcattctaag gccatatgat atcttataaa 240
 ctcttctatc actctactga tgatgatgat tcgagaaagc gctttagttc tttgtagatg 300
 actgaagggg tacagaatca ccttcatttg tgctgtcacg gtctttccca aaaatcttag 360
 atgcattcaa tatctgtttc aatcaacata taatctatca cttacaaaca gtggaacatc 420
 ata 423

<210> 16321
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 16321

ttcttgcaag atggaagcaa agaaatctat caatgggggg tagaataacc ctcatataatt 60

cagtcttaac agccttacc atctatttgc tgccttctt caagatacct aaacatgtgg 120
 tgcaaaagat tgtatctatt caaaggaatt tcttatgggg aagtcaccaa gactccaaca 180
 agatcccttg gggaggcgcc atttgacat gaatcactct tgaggcaaaa atcaaggatc 240
 aaatggctca ggaaggtga cagtaacaca tgcttcttcc ataaatocat aaattttaga 300
 agacattata atgcaattca aggaatattc attgaaagta tatgggttca gcaaccaaaa 360
 ttggttaagg aagaagctgt 380

<210> 16322
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 16322

tgttgacacg cggagattta cgtcatcttc cgcgcacact agatctgtca tactgacatt 60
 tgagtcacgc tgacgggcgg aaatacccgga gtggttatcc gtataaacat tcttttgctg 120
 tctgtaagac aaaaagcctg atagcacgca gagactaacg tcgtcttctg catccttctg 180
 caatcgcggc cgacaagccc gttggcacgc ggagatttac gtcacattcc gcgctcacia 240
 gatctgtcat actgacattt gagtcacgct gacggacgga aatacccgag tgggttatccg 300
 tataaacatt ctttttgcta tctgtaagat gaaaagcctg atagcatgca gagactgaca 360
 tcgtcttctg caccctttgt tccccgggg acaacaagtc agttgcatgc agagatat 418

<210> 16323
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 16323

gagctttgac gcattctctc tgtctctcta tcccttctct caatttacac catgatgtat 60
 aatagaagct atcaatattt gcttcttctg tttcttttca actatatttt cgtagggtga 120
 aattatattg aaatcagaac agcatgcact aaacaaagaa ttgtacacac acaatattga 180
 agttgcttta tccaaaccaa atatttcaaa aataagaaga atttagtcga aaataattaa 240
 tgagaaaacta ctctatgcag tgagagtatt aactgcaag tcccagatag agggatatgac 300
 tactacgcgt gctagcttta agagctatag ctactatgat ttctgattga tgaacagtgt 360

catgcatt

368

<210> 16324
<211> 428
<212> DNA
<213> Glycine max

<400> 16324

tgagatacaa tattgtacta agaaagtatg aatcttacct attaaattaa caaaggctgc 60
tattaggtat ctcactctct ggctatttca agtagttatg cgtaaagaca ataacaagaa 120
gaatcaagct aagaaaatcg tcaatgtcaa ctcataatta attaaaacat taacaaaaca 180
attcctacat aagtttacta attcaattta taaatatatt gcattttgtt aaagacttat 240
caatcctcaa tacttattcc tgtctcgatt ataagtaaaa aaggacatat gtcacattta 300
ttaaggaaat tagttatctt cattaaagtg tgcgagtttc aattaataaa tgagtttttt 360
ccctaaatta tctttcattt aaacttgata tcaagcataa aaatggtttt ggtcatacta 420
aatgaata 428

<210> 16325
<211> 388
<212> DNA
<213> Glycine max

<400> 16325

atgatcgttg tgtgcatgca ttcttgtggg atttggtgat agtgattgtg ccggagatgt 60
agatgatata ataagtacta ccggatttgt attttttatg ggtgattgtg tctttacatg 120
gagttctaag aggcaaggca ttgtgacact ttctacttgt gaagccaagt atgtagctac 180
aacttcttgc acatgtcatg ccagttggct aagaagattg ctggaggaaa ttcagttggt 240
gcacaaggag agcacaaga tctatgttga tcatagatct gcacaagagc ttgccaggag 300
tccagtgttg catgaacgaa ctaagcatat atatacaaag tatcatttca ttgtagagtg 360
cattaccaag acagaagatt aattgact 388

<210> 16326
<211> 405
<212> DNA
<213> Glycine max

<400> 16326

gttcgattca ttctatgtac ccgtagtggt tcactttgtg ttctgtgcat tactattctc 60
gttttgttta ctttttatac cccctgttga cgtgcttaag ccattttact taagtcattt 120
ctcgcctaac ttagaaataa aatcaatttc caccgaacgt ttgaattgta ttatccgtta 180
acttcgggta aaataaattc cgaccgttcg gtcgtgccgt aaccacgttg gaaatcaaaa 240
aagaggtaaa aataatataa taatcaaaaa gacatctttt agtaaaataa agcggaaaaat 300
caatcggacg ttttctcttt gggatttctc attcttaatc gaattgatta ataactaaag 360
tgaaattaag gctaaatca actcgcttag tcaagctcgg ccaca 405

<210> 16327

<211> 211

<212> DNA

<213> Glycine max

<400> 16327

ttactcgccc ggatcttcat cgaacgcggc tgcttgctga tcggacctca gtgtcgaaaag 60
ttatgaccat ttgaatttct ctagagcatc cgggtggaaa atttgagcgt gtcgacatat 120
tatgcaccct gagcaaaaat atctgtgaga agcgatgacc cattgacttt atcgagagct 180
ttcgatgggt aagattgagc gtcttgaata t 211

<210> 16328

<211> 404

<212> DNA

<213> Glycine max

<400> 16328

tatactatat cgagacgctc gaatttaatt atcttatatc tcttgagaaa ttcaaatggt 60
cgtaactttt tacacggatg tccgattcgg ggcataata tgtcgagatg ctcgaaatta 120
aacaacgaaa gctcttgaga aattcaaatg gtcataactt ttgacacgga tgctctattc 180
aggcaaatca catatcgaga cgctcaaat tgaacaacgg aagctcctga gaaattcaaa 240
tgcttataac atatagtgac actcgaaatg tccgattcat gcttataata tatcgatagc 300
ctcgaaatat aacatgtaaa gctctcgcga aatctaaatg gtcataactt ttacacgga 360
tgtacgattc tgacgcataa tatgtcgaga ggctcggaat tgaa 404

<210> 16329
 <211> 316
 <212> DNA
 <213> Glycine max

<400> 16329

ttcctccaga aacaacagcc ttacggacga acgaaccgga aggccacact gggccagaat 60
 gccatatgca cccccgcta tacaagtgc accccctact aaatttctga tagagaagtt 120
 tccgtaacat cacaaaatc tacgaaggac gcaccgatac ttaatgacct accgcagggg 180
 cacaaatcca tgcggattag gcataatac tgtgacagct acccaagcaa ttacggaaac 240
 tcacggattg cacaaaacca cctattgccg actaccgaca aattactgaa tgtcacgggt 300
 cgcgcaagcc tgcttg 316

<210> 16330
 <211> 559
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16330

cacacacagc cnacacccac acaatgcgaa ataacaggac agtcactacg cacnccgagc 60
 aacatccaca cncaacacaa cgacggtnnn ntttgattac atngcatcgc caancacgtg 120
 acacaancna caaccaggcg agagagagcc accgaagaga gagccaactt tgactacaca 180
 tgctagcaac gctactagga cactgcagac cggaagaatc cccatatcgg agaaccataa 240
 acgcggggtc ccatgactac ctacaattac gaagtgtcga ccccaaacga caciaagcgg 300
 gaaaggctga cttactgcaa caccgctgaa cagcccatga aaacctcaag acctccatat 360
 atatcataga cccgaatac ggacatcgca tccaatgcta cgcacagaca aggcgaaggc 420
 acatcacagg tatgacactg aaacatacta gcacagacga agcaacaaaa aaggcagccc 480
 gtcagacaaa cgaacagcat aatatgagac ctggaacaag atggacacct atacaaacaa 540
 gcgcgctaca tacttctcg 559

<210> 16331
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 16331

ttttcatgct atctttgcct tgcaaatctg ttgaaattgg acggaaggaa cgatcaatct 60
acccttgaaa gagttctgac tagatgacat gatccatatg cgttttcacc atctcatgaa 120
gaacacaaac tatttttctt actcattata ttcttaatgt aaactgagcc tcgagctcat 180
tagcatatct ttaatgcgtt tttctttgca ctttttaaact ctccattcgt acgttaatga 240
ttaattgttc taaagaccac ttccacttca ctataaggct cttacacca tgggcgtgat 300
tcgaccctat ctactcgcc catcacttcc tgtctctata atttttttct ttacccaaaa 360
tgcgtcgaga tataaa 376

<210> 16332

<211> 367

<212> DNA

<213> Glycine max

<400> 16332

tgacactact caatactcta gctagcattt gcataatctg ctgggcggcc ctctacattt 60
atcagagtcc ttctacctga actcagccat ttgtgaaaat tatccctaata tcaccatctc 120
agaactataa tatagtttgc ggaactcgtg gaactcagaa gatgctcaac tacaatcctg 180
tggtattata ctctaattgga aaggaggaaa cctacaaagc gtgttcgcga cgatgatata 240
tggttaatctc tttggatata tcccgaatct gagagagcgt aataagattc ccttggagga 300
cccatttctg aagaacgttg gtggcgcttc tcttgggagc ctaagcctga agattctgct 360
ccttacg 367

<210> 16333

<211> 370

<212> DNA

<213> Glycine max

<400> 16333

tcttgtaag gccccagcc gggacaagtg ttgtccgggc tgcttctatc aagttgtcta 60
ggatggacat gctttttgta ttacaagcaa agtcagacgt gtcaagtga gggagtcct 120
aatttgaca actctaccat tttctaactt ttggagaatg cattaaagga aaatgttctc 180
gtttttcctt ttgctacagg cgaatgttgc gcacgggcgt tacttttgca tacgtgtcac 240

tcgtggaatg ggcacgtact ggagacacgg tacgtgggtg agtggagctc catagtgggtg 300
 caaaatTTTTT gggcatcatt tcagctcctg ccagttactg aaggggttgca cctccactct 360
 aaatggagtg 370

<210> 16334
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 16334

ttgtaagcac aaatcagaag taggtcgctc taacttagag ggctgaagct gaaacacaaa 60
 tttctcactc aaagatcttg catatagtgg ttgttcagtg acatctaagg gttttttaaa 120
 acaatttttc aaataagcac ttggtgtaaa atgatgtag aaaaagataa tatgaatact 180
 taataaaata atatggagag aagtataaca acttggatta tatcggttcg ctcaacttga 240
 cctacgtcta gttctccttt actcactggg aaaggggtcc actaatcaat aactaattac 300
 atataagtat tctaataccg aactcctgaa ttacaagta ttcttaacac cacttataga 360
 atcttcctag actctccctg aatctaagaa cccaagtatt ttgaacacta agtcactcct 420
 gtcac 425

<210> 16335
 <211> 505
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16335

catcatgcac tccgagcacc tcgcatcgt taacctatgt ngcatcttcc tacanaaann 60
 acaaagcagg ggnntttgag cgtgtgatgg agcgttgaan nccccnnggt taaaggggcc 120
 ccagcgtggc cccacnacgg gtggcgnctt cttattccac acggacacac atcacaaaat 180
 aaaaccctct catatttctc ccacatctct tgccaaaata taataaatc acccccccat 240
 aatccccaaa aaaaatccgg ggacacagcg gcgctctggg gaaacagggg ggggggacta 300
 caaagagtcg ctgtccttgg cgacatgggt gctctacgga cgcacaaggg gggggcgccg 360
 cgagacgtac ccttcgtggg ggtcctccca gtgtctttca ttggcgtgog cgccggggcg 420

ggcgggttata ctgcctctg aagcgacgg tggcggcttt atcgggtgggc ggggcgcccc 480
 caatgaaacg agaggtatgt ttgcg 505

<210> 16336
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 16336

tatcggatta tggggcactt gtcttatgtg gtactatggg gcgatcagcg atggcgcaag 60
 tcaactctcc cacttccaca agtcaaacat aaacacacca tccccagttg cccaccttta 120
 aattgagctc acgcactccc acatagccct tatcctcggt cctctcatca ccgggtcccc 180
 atcaacacct ccaagctttc acaatataca aacaattcaa tttcatttgt catgaaacta 240
 ccctaaacca agaaaataga gtggaggcaa aaaactctgc aaaaaactca ttcaaattcc 300
 acagttttcc ctactcacat accccaataa cattctcttc gttccgattc ggtaaccatt 360
 tgatcgcctt gaaaatttta ctggagggtgc ctagtacaga tatctacat 409

<210> 16337
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 16337

ttgctttgtg taatcgatta cacttatattg gtaatcgatt accagtgact atttctgaat 60
 aaatcaaaag atgcaactct tcaaaaaggt ttgactttt tcaaattggt tttaagtttt 120
 tctaaaagtt ataactcttc taaatgggtct tcttgaccag acatgaagag tctataaaag 180
 aaaggctttg ttttgcatth tcaatttatt cattcattca atcttgaata cttttccaat 240
 caatctctta cagtccttta caagccttga atctctttga acttcttctt cttcttcttc 300
 tttgtaccaa aatctttcta aagttttcta gttttctaaa ccttgaaaac ttgtgctatt 360
 catcttt 367

<210> 16338
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 16338

tattagagtt ttaacacact ctttttaaca cactctccac tgttggtcct caattaattg 60
agaattataa aatcagaata atgactcatc atatgagtag tgggacctgc caaatttggtg 120
atttttaaga aatttgagcc aacaaaaaaa agtggtcaag agaatatgtt agagacagtg 180
ttgctaccat ttctctgttt aggaatgggtg tttgtagtta ttagtgaaaa tagaaataga 240
aaatatatttc cttatgtcaa acaggcttct gcattactat ttttagtttt tacaacatta 300
tgatagatca ttatatattt tttctttctc taaaacaaat gatttattta ttgtcttgng 360
gtggtgtata taaaaactga tcaacacatt ntacttttct ttttttg 407

<210> 16339
<211> 301
<212> DNA
<213> Glycine max

<400> 16339
gagcttgccc aaaaccaca agttttaagt ttcaataaat tacatattac attacatttt 60
ttaagaactc ttcataataa tctatatatta caacccttct taatgcacct tgaaaaatac 120
tcaggaacaa agatattttt aatgaagata ttattattgg aataaaaaaa catgctagat 180
aaacacaatc ggtatacaca taagttcaga atggcaaggg acaaagtata atcttcacct 240
gtttgtgacc tcaaactaaa actcataagt gataggaaat cagatggaaa atatataact 300
t 301

<210> 16340
<211> 421
<212> DNA
<213> Glycine max

<400> 16340
tcctcaattg tttagcttga ctccatcttc tggttaagct ggaaatgtcc aaaggcggca 60
caataattct cctcaaacca gccaaacaga gaacctctct gataggaaat cactggatcc 120
tccttcaaat aacgaagtag caagttcagc agaaggtatg ttttgtcatc ttaggccttt 180
tgtctaaatg ttttggtaga gctataaatc atatttgagt ctccacccaa tagcttatgc 240
atttgggaga cttgggtcgtt gacatggtat caaagcctct ctgaccaatg gattaggatt 300

tcaatcaatc cttgcctcca tgatccccct tcttcataat tcaattaagc ttcaatacaa 360
 aggaaagtga gcttgtgcac catccatggt taaccttaaa ggactcttgc tgttatgtta 420
 a 421

<210> 16341
 <211> 148
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16341

ctcgtacccg agatcctcta atcgacctgc tgcattctgt ttacatttta tntanttang 60
 acccactatc ctagaacata catattctta tgcccctaac ctacggaatt aaaaataaac 120
 ttacatgctg attgtgactg aatttgtg 148

<210> 16342
 <211> 178
 <212> DNA
 <213> Glycine max

<400> 16342

tatggatgga atacttactt ggcggtgacg aacttttagtg tcgaaaccaa tcaccaaattg 60
 cgagaaatga tgaccctaag gctggaaact cgtaaatcgc gaggatatgg ctcttgcaac 120
 gtggaaaaga cgatgctgaa tgacaaaact tcccgacttg cgacatttat atatattg 178

<210> 16343
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 16343

ttcttgcttt taagttgacc aaatctaata ccaccgacaa cagtgtgaag ctagtgcacc 60
 tcgcatacaa aggcttctta gaatcaattt gtaattgctt atacaaaggt gcatgtgctt 120
 gccaaaaatc gtcttgcca agatcgtgta tcatgtcttt tatatgattt gggatgtctt 180
 cattaaccgc gttagtatga gagcctattg ttatatatgt tgattcacca tgcgaaatcc 240
 attttgtgaa attcagaatt atcccctcac atataagatg tgatcttatg tcattgagtg 300

actgtcgtct cccattccca catttgacac atggacaaaa atatttttca ccataagtg 360
atgcatttcg ttcagc 376

<210> 16344
<211> 419
<212> DNA
<213> Glycine max

<400> 16344

taaagtatgc ccgagtcatt catccctatg agatgttggt taagtattgt cgatcagaat 60
tgccattcct tggattatag ggttgaacca agctcatgct tttaaaaaa gggtcatcaa 120
gtcaagttga aatatggaag taatcgtctt gcaaaattgg ggcaaaagat gaggcgagtc 180
acatcactgc ttcgtctact gccaaacata tttaggatta ttgatgtcct tgttacttcc 240
agtttcacct tgacaaagat gtcattggacc atgttgaaaa tctaaattga ttcaacccca 300
tactctgtgt aaaaattcgc aatacttcaa ctgtacacca ttgcataca tacatgcttt 360
tcattgcttg cattgctcat tgcattcttt ccttgaaaaa taaaataaaa taaataatg 419

<210> 16345
<211> 380
<212> DNA
<213> Glycine max

<400> 16345

ttcttaggga tggaatactt acttggtggt gatgaacaaa agcgcggaac ggaatcaaaa 60
aatgcgaaaa gtgatgacct taagactgca aactcgtaaa tcccgtgggt atggcttttg 120
aaagggggaa aagaagtttt tgaatgaaaa aaaacgtccc ccctttcgtc acttttatat 180
tttggtgcag aggtggctcg ccagggcgag ctaacctgca cttttttttt tttttttttt 240
ttttttgagg ggaacattta aacatgcccc tcccttctca tggattagca tcttgcctaa 300
cttgaactta cttagggttag aattaggcgt tgattactta ttttattatt gctatcattt 360
ttttcaaata gtaaaagaaa 380

<210> 16346
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 16346

tggagaggat gcttcaatgg aggataagaa agagtgagag ttagagagag gggggagcac 60
 gaaattgaag gaagaaaaag ggagagaagt tgaactttga gttgtgtctc acaagactct 120
 cattcatcaa agttacaaca agtggtactc atgcttgtat ttataaacta ggtagcttcc 180
 ttgagaagtt ttctagagaa aactttcttg agaagcttct ttgagaaaac ttccttgaga 240
 tgctagagct tagctacaca caccctctc ataactaagc tcacctcctt gagaagcttc 300
 cttagaaga ttcctaaaga agctagagct tagctacaca tacctctcta atagctaagc 360
 tcacctcctt gagatgagac gctagagctt agctacacac ccnctataat agttaggctc 420
 ac 422

<210> 16347
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16347

ttgttgcgag cgennacctc gtccttcagg agcatgcctt tgacctatga tgattccttt 60
 cacctcttca cgagcttgag ctactattg ctgccctata aagccctca aaactttgct 120
 ttggtcgagt tcttcttttc gggccttcac ggtttctcgt tccaaggctt catcggtggc 180
 catatagacg tgccttagtt catcatactc ttttcagact ttgatggcta tgaacttgaa 240
 cttctctttg actaccggg ctctttcaag ctctgccttt acggcttata cctcatcact 300
 atcttgtgaa gctataagct catcatctct catagtctgt agatttgga gccaatccaa 360
 tacttgtgtg cggac 375

<210> 16348
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16348

ntgagccaaa atcctgactc accataaacc ttattctctg aagcagaatt tataaaaaga 60
 aggaaaggat attcccaatc atagagaaag cataaaagga aggattggat attcccaatc 120

[illegible]

<400> 16349

<210>	16350
<211>	420
<212>	DNA
<213>	Glycine max

tcccagatcc gatcatggaa ggacttgggtt actgttctta ttaggcagta ccagtacaat	60
acggacatgg ctctcgatcg gaaccagctt cggggtatga ctaaacgaga gcatgagtcc	120
attaaggaat atgcccagag atggagagat ctctgcagccc aagttgtatc gcccacgcag	180
tcaccaccgc cccaacatgg atgaaagcac cccaaaatat ccaaagctca taccagccca	240
atcccccaaa ttttttaatc cgagccgaga attccctccc gactcaagta aaaggaccac	300
ccgcagcaga aagagcgcca gcccgacgca cagctccagc cgcaccccggt ctagttaata	360
atacagcccc cggcgtgacc tatanatatg cacagcaacc gaaagacaac ttcccttcta	420

6864

<213> Glycine max

<223> unsure at all n locations

<400> 16351

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ggatcctggt gagtgatccg gatgatgctt ttttatgtca tgctttaccg aatggattcc 120
ttgagcctca ctccatacac aatgcacttg atatgcggtgc tgaatgtcag tgttacattg 180
aaacatgggt gaaggaatcc caaagagaag tctacctagg agcttacttg aatccataag 240
gtcatttatt gcaatgggtg tacgaaaaat aatgtgacct tatgaacctt aatattgcc 300
attatagggc ccatggcacc tggtttgctt atgtcctaag aaggaatggt gctaaattgt 360
tcgcccctaa gaaccggatt tcaattaact tcactacaag ttagtttaat ttcactaata 420
aggatggaag ttggn 435

<210> 16352

<211> 365

<212> DNA

<213> Glycine max

<400> 16352

tggacacttt caatatgatt gtcctacgtt gtattagaaa ccattttatg ctgagatgga 60
ggataaagag gaacaagagg atgagctctt gttaataacc ttcatagatt gcatacaagg 120
gaagaaggat gagtgggttc tagactcggg atgcggcaac cacatgagta gtaacaagga 180
gtggttctca gaattggatg agaactttcg gcacaatgta aggcttggtg atgatactca 240
catatctgtg aaggggaaag gtagtgtttg gatggttgtg aatgagatta tacatgtaat 300
cacacatgta tattatgttc ttgaactcaa gaataattca tcgagtatat gactgcttca 360
agaaa 365

<210> 16353

<211> 354

<212> DNA

<213> Glycine max

<400> 16353

ttcttctata gaagggtcgg tctaatttc tctacaattg catcacctct caatgagctg 60
gtgaagaaga atgtggcatt tacctgggggt gaaaaacaag agcaagcctt tgcttttctc 120

aaagaaaagc ttactaaggc acttggttcta gctcttcttg acttttctaa aacttttgag 180
 ctagaatgcg atacctctag agtgggagtt ggagctgtat tggtacaagg tgggcaccct 240
 attgcttatt ttagtgaaaa acttcatagt gccaccctca actacccac ctatgataaa 300
 gagctttatg ccttaataag agccctccaa acttggaat atgaccttgt ttcc 354

<210> 16354
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 16354
 tccactatac tacaaattgt agaatcatat tatgtatcca ttctctggtg ctcgataaga 60
 acatttatac tcaccaacat acaattctcc ggccataaaa atcttaaggg gaaaatatat 120
 atcagttata ttagcactgc ccaagttgtc agtatggtat tcccttagca tgcataagtc 180
 cccgaggact ccaacaataa attttgatcc agtccctaaa acatggtgct ccctaaatgg 240
 gaaaccaaag ggggtgttcag catttcatta gcaaataatt cagcccattt aaaataaaga 300
 aaaggaaata aaatctaaga aacaacagaa aacgaggcca gtgtatgaga tataaatgca 360
 gaataaagggt ggcatcatcc aatatgatta agatgagcca tatggattaa ctg 413

<210> 16355
 <211> 354
 <212> DNA
 <213> Glycine max

<400> 16355
 ttctttaaat gtgtctaaat gaccataaca attgataaga tgctgctcta aattcttaac 60
 catttggaact catcactaac tattcaattg ccttaagtga ctaagtga aaacttagc 120
 caaagaggac atcgctctca tattctactt caaccagacc aataattaac actctaactt 180
 gactggacaa tagcgaagac agagttgagg actttaaat atttttttta tatataaaac 240
 tgatacaact agcttcaaag cttgagagac ttatgtacta ctggaacttg agaagccttt 300
 gtactctgtg atcgaccaag ccggcaactc acatttaag aatctagtgg ataa 354

<210> 16356
 <211> 418

<212> DNA
<213> Glycine max

<400> 16356

tatgctacaa acatttataa tagaccccct cagcttataa accaataaca acagaataat 60
tatgatcttt caagcaacag atacaatcca gattggagga atcatccaaa tctgagatgg 120
acaagtcttc cacaacaaca acagcctgtc cctcccttac aaaatggttc tggccaagc 180
aagccatatt ttcctcctcc aatgcaacag cagcagcagc agtcacaatt gttagtgtct 240
agcactactg agtttaaaaa ggttggtctaa gattttgtta aaacataagc acttagacaa 300
tgaaggaaag ctggagttgc tgcacatgat gaccaacgct atgtcaagga ataagatcgg 360
gctgcataat gcacaaggca agataaagtg tcaagtgatg aattgaagtt gaacgatc 418

<210> 16357
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16357

atgcggttgc atgctttctn tgaaagcgga actcgaaaaa acaagagtga tctacgtgaa 60
gctaattgacg gcattcacta cagtcatgat agattgtgat gagctgagag gtcaacatga 120
ctacggttga atcattatag cgggaaacaa aaagggcccc aaaggaagaa tagagcagga 180
acaaattccg agggaccgag agggaccagt caaggatgga aagcatggtg ttagaggata 240
agttgaatgc ttgtcaaagg tcgaagagaa gcttgatgga acggttgagc acaacaaaag 300
aaaatatgtt gacaattatt gatcaatata aggagaaggt gaacttagct actagtcatg 360
ggtagaggct agaggatgaa catg 384

<210> 16358
<211> 418
<212> DNA
<213> Glycine max

<400> 16358

tttccctcac tctcacgttg cttttttctt cttttctctt ccaccattga agcctccatc 60
aaagctccaa actttactca ccatttctac tccaaatcgc aaaaggaagc cattttcgga 120

gtcgtgaagc gcatctcaac gttgtgggac ttcaaatttc aggtttgggt agacttcttc 180
 tcacatgatt ttcattggga ttgggtgttt gggagatatg atgggtagtt ttactaggtt 240
 tatgccttat ggtagttatt tgtgaaggaa tttgttgaaa gcatgctaaa attatcatgt 300
 ttgatgtgag tcaaatttac ccattctgtt ttaggggttt atgatgatgc tttgtgatgg 360
 ttgtgtgctg aaattgatga tagaaaactg atagagatga agggtagagc taaccgag 418

<210> 16359
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16359

ggagagacnc gtggancctt tgaatgcatg cattgccaac gcaagtacat ctagttecca 60
 gcgtcgtatc atacatcagg ctgatgcatt cttatttgat gctncagtgg atctaagggg 120
 cttacgttac ataatacgcc acccagacca caatacaagc tgaaagtgtc tactctgttg 180
 cacttgggtca gaaagaatcc tattgatagg atctcctagt acctaacgag caacaatcgg 240
 cacactcaat cgtgacgtgt ctctaatat tatatatccc cctctttacc gcatttgctt 300
 tacaactatg tgccattgaa acctgacatg actcattaca atcaatgtga tagtagtcta 360
 tccatgtgct gtccatttga acacctcaaa gcatatctaa cactgctcat atacctgcag 420
 aatgctcata tcgtttcttc aatacaggac tgaaccatca ccg 463

<210> 16360
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 16360

tgtgcctctt cacgtctggt tatgaatgta gcatatatga tccaaagacc cttaggtgct 60
 ttgctgatgg cttcttccca ttccaagctt caattggagt cttgtctttt acagactcaa 120
 ttggacatct gccgagtatg taaacagcag tgtagactgc ttcagcccag aatgtgttag 180
 gtagtccctt ttacttgagc atcaatctag ccgtctgcat aactgtgcga ttctttctct 240
 cggacactcc attttgctga ggagaatatg cgactgtaca ttgtctctca atgccttcat 300
 cctcacagaa tctttcatat tcgtgagagg tgtactcttt ggcgcgatca cttcataata 360

cttttatccg ttttccactt tgattttcaa caaggacctt gaactttt

408

<210> 16361
<211> 364
<212> DNA
<213> Glycine max

<400> 16361

tttcttcaac atcagaccac ttccaggggtg ctggaactac ttcacatgga cttgatgggg 60
cctatgcaag ttgaaagcct tggaggaaag aggtatgcct atgttggtgt ggatgatttc 120
tccagattta cctgggtcaa ctttatcaga gagaaatcag acacctttga agtattcaaa 180
gagttgagtc taagacttca aagagaaaaa gactgtgtca tcaagagaat taggagtgac 240
catggcagag agtttgaaaa cagcaagttt actgaattct gcacatctga aggcattact 300
catgagttct ctgcagccat tacaccacaa caaatggca tagttgaaag gaaaaacatg 360
actt 364

<210> 16362
<211> 402
<212> DNA
<213> Glycine max

<400> 16362

ttccgctcgg atgtccgatt catgtgtatc acatattgag aactcgaag ttgatcaatg 60
gaagctctcg agatattcaa atggtcataa cttttaacaa ggtgggtctga ttcaggcgca 120
taaaataacg agacgtttgt aattgaacaa cggaagctcg agagaaattc aaatgggtcat 180
aacttttcac acggaggtcc gactcaggcg cgtaatatat cgagatgttc gtaattgaac 240
aacggaagct ctcgagaaat tcaaatggtc aaaacttttc actcggatgt ccaattcagg 300
cacatcacat atctagacgt tcgcaatgga acaacggaag ctcttgagat attcaaatgg 360
tcataactct tcaactcgaat gtccgattca ggtgtatcac ac 402

<210> 16363
<211> 378
<212> DNA
<213> Glycine max

<400> 16363

acgttcttaa caaatggcat gcgaagtggg tggaaattcct agagcaattc ccttatgtta 60
tcaaacataa aaaaggaaaa ggtaaatattg tagccgatgc tctttctcgg cgtcatgcat 120
tactttctat gcttgaaaca aaatcgattg gacttgaatg tttgaaaagc atgtatgaaa 180
atgatgaaac ttttggagaa attcttaaaa attgtgaaaa cttttcagaa aatggtttct 240
ttagacatga aggctttctt ttcaaagaaa acaaattgtg tgtgcctaaa tgttctacta 300
gaaatctgct tatttgagaa gcacatgaac gaggtttaat ggggcatttt tgggtccaaa 360
atactctaga tacattac 378

<210> 16364
<211> 280
<212> DNA
<213> Glycine max

<400> 16364
tcattgccta acaagccaac ttacaacagc aagcttcaag agactcagca taaggatgca 60
cagaccaaag ttgcgtatgt aaaaaaattg tatgaccaag tgaagggtgca aattgcaaag 120
aagaatgaaa gctatgccaa gcaagcccaa aagaaaagga aggaagtggc acttgaaccc 180
ggatgatgac ttggacattt gaggacaaat gttttccaag aaggagggaa tgatgagaat 240
catgaaacag gccatataca gtctaaaggc ccaagtggag 280

<210> 16365
<211> 379
<212> DNA
<213> Glycine max

<400> 16365
ggtgcttaag cttcttcaac tgcacaaggc tcttaatgtt tgaagagtat ccttgtggaa 60
ccttcacccg acgaagacac tgacaaaaac ttatcttctc ctttttggac aaggatggc 120
aagctagggg caagtaaatt ttcttcccat tagaccttgg atgcaactgt gatcgatgc 180
ccatatacgc tagatcttga caggtattga agccatcctt catcttgcct tgaatgttaa 240
ggagagtccc aatcacacta tcacaaacat ttttctccac atgcataaca tcaatacaat 300
gtctaacatc aagatcagat cagtacgaga gatcaaagaa tatggacctc ttcttcata 360
tgcaactctt acttttatc 379

<210> 16366
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16366

ctgacatgag tcatcaaaag actataaata tgtgaccatg gaatggaatt taagatgata 60
 tccatcatct atctttcaat cttctctcac acatcattca gatatctttc aactctttct 120
 acaaaaggnt ctgatgcttt ttctttgcat ctttctaaaa gttttgatca aaactttctc 180
 ttccaataaa tattgttcag aaacttgtgc tattcatcgt ttccattctc ttctcccttt 240
 gccaaaagaa caaaggacta atcgctgag aatttttctg gatcgttcct ttcccttaag 300
 caaaagattt caaaggacta gccatctgag atatcttttg gttccctta caaagattca 360
 aaggactaac cgctgagaa ttctttgtcc aacacattgg agggatatat 409

<210> 16367
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 16367

tatcttttca ttgggttgc ctgctacagt cccaagcat tagagagaaa gcgaaggaat 60
 ggaagcctca atttcattgt ctccatgtaa ggggtatttc tctctctaca ggcatcatt 120
 agcaaattccc aatggtatga acctacgaaa ttgagtacca taaacgattt ctgagtctca 180
 aaataatcca acggttaacg agtttaacat tgaagtgtta ctaagatgga ttgggtata 240
 tgccggaaag agattggatt attggagagg aagagagaac acatttagga ggaagagagc 300
 ataagaacat atcataagtg taataattga tcgaatatat atctatttat aggtcgggta 360
 ctctgagctt att 373

<210> 16368
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16368

ntagtcaaac aaaataatcc agatatgtca aagaattgng tgttgaaaaa gcacaacaag 60
 actttntgtg attagtttaa agatacaatc tttgtagatg agaatgcttc aaaaacatta 120
 agaaagctag cagatgggcc taaaagaaat gttataaccc gacaaggata caacataaac 180
 aagtattcat tttacacaaa agcacaagat gacaaaagta caatgcagaa caacggggtc 240
 accctaaggg ctgaatctca acacttcgca acttttggtt tgtaaattac agtgtagttt 300
 acaaaagcaa aggtgaaagg aaagatattg agctggtaga ggaggaagag ccatagattg 360
 gtgctgattg ttctggagca acctctaata aatctgagat ttataaggag gaagcacata 420
 ata 423

<210> 16369
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 16369
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 aggttctgaa agtaagaacc aaaacataag atcgcccagt gaggtaaaat tgtcaagcta 120
 atgacgttaa agaagcgctt cctgggaggg aaccagttt taatttctgt agtttttggt 180
 ttcatgcatt agatcattgg gaacttgctg cataatctgt acataggagt atattagcct 240
 atctttgaat gttaaacata agggtttcaa tttcttgga aaaggactga aaaataactc 300
 agaaaatatt ttataaaaaa atactccttt cgctaagcgc aagtctcaca ctaagcgcat 360
 cattattcat gcgctaagcc atgagtct 388

<210> 16370
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 16370
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 ccctcttggt ctgttggtcg aaggctttgg ttgttgctat atttatatct ctgagttcgg 120
 cattctcctt tcggattttc agagttgctg atttgaacct ttctttgact gtttgggctt 180
 gctcgagttc tgcctaagg gcctgcacct ctctgcttc ctccggtgcc tcaacttctt 240

cccttttagc ggttctcaaa ctcaggagcc aatccaatcc ttgcacgtgg gctttcaacc 300
 acttacggta gccactgatg ggcccattgt taccgcccct gagttctttg tccttctttt 360
 gcaccacctc ccatgccttg cggaccttct gaagtgtctc catggttggtc ttattgaaa 419

<210> 16371
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 16371
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 aaacagagca aaggcagaaa actctgctca acacatcaac caaaatcaca gcttttctca 120
 cttaaagacc acagtaacaa ttccttcgat ccaatttggt aaccgttgga tcgactccaa 180
 aattttactg gaagtctata gtgcataagc ctacattgtg accgttgga tctactagca 240
 tacatccaga actcattttg tactactctt tccacagcca accacacaca agcatttttc 300
 tgcacttggtg caaaattctg ctgcacaatt tcacagcaaa gattctgcat aagtgcagat 360
 ttcggacatc acact 375

<210> 16372
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16372

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 atacatactt gcaatttggt tggtgctcgg caaagaaagg ccaacaaatc ataggcacac 120
 ctgcagatat actttcaagt gtagaattcc aaccacaatg ggtagaaaag gcccactg 180
 atggatgaga aagcactttc tcttgaacac accaacttgt tatatatccc ctgtccttga 240
 tctcatcaaa gaactcttgt ggcaaagata tagattcacc cattactaca tctggtctca 300
 ttatccataa gaaatgttgc ttgctatttg ctagtcccca agcaaattct ttcaagtgat 360
 gctctgtcat caccgttata ctcccataat taacatatat gactgagtta gggtccatt 420
 tgtct 425

[illegible][illegible]

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[illegible]

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[illegible][illegible]

caatggtgta tacgattggt cccaaggcct tatatttctc ttgctgtgca aagtaatcaa 240
 tgttttgaac aaaaaaagg gggaaaacc tatgatcaat atttcaatgg attgattaaa 300
 tgtcaaacga ctccattgta gtcactctaa aatgttcaag tgactgaatc agaccgaaca 360
 tacactct 368

<210> 16376
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 16376
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 tcgttgaggc gacctgagct cacctgggag agctgggcgg caagctctc ccctattttg 120
 gctataaatg ggcatgagag gctgagggga aagagttcaa cacccttagt attcagattt 180
 cacttaaaat tagtgaggag aagaagaaag aaggagaaaa tcaaggccga ggcacttccg 240
 taacgcttcc gtgacgttcc cgtgaccaat tccatgaacg ttctctgtcg ttcttcatcc 300
 attcttcate gttcgtcgat ctttaactgg ttagtttttt atttcacagc tatgaattca 360
 ttctatgcat cgttaggggt ccattcttgc attgtatgtt ttcattctca tctcgt 416

<210> 16377
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 16377
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 tttcacggaa ccggtcttgg ccacgccaca ttgatctgt tccgacttcc taccctacag 120
 ggaattttac ttgatgcac aaatgcccat cgagcataag ctataacgca atcgatgaga 180
 catatacaaa gatatggcac atttacccca taggcgcctt taaaagtcac caagcttaat 240
 ctagggaagg gattacttat ccctaaatac agtacaattc tgtccgaata cgcaagaacc 300
 tatcctaaag ttacatcgcc accctagtcc 330

<210> 16378
 <211> 411

<212> DNA
<213> Glycine max

<400> 16378

aaactcagct ctgatgcccc cttctctata cccactgttt atatccaatc tcaggctcct 60
caaggtattg gtaagagcaa cccccccca tccacctgc acatctgaga tccaagcctc 120
tttaatcata caatggtacc ctttatgttc aagccaccag tccaccaccc taaaaggctt 180
agggccccaa tccaccatct ttgtggccaa gaagatcggg caatgatccg aataatctct 240
ttgaagaaca tgccgagaag catcatgcca caaggatagc catcgatcag acaccatgaa 300
tctgcctagt ctgctcttgg cactgccatt gggcctaaac caagtgaaat tgcttccaaa 360
acatcgtatg tcctggagct ccatctcaaa tatccagaca ttgaactccg a 411

<210> 16379
<211> 338
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16379

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cttcctact ttgttcgttg accacagagc ggtacctgga gatatgtcgc gggggtcagg 120
agaccttggt gaggtcctgt ggggtgcttt tgcccaaaac gatcttgacc aatccccgacc 180
cttccccggc ataagcagtc ggtgataacc tgtgatatac ctaaacaggc gagctgctgg 240
catgtccccg ttttaagaag ctagacctca tggcttgat gcttgtgtgg agactggcca 300
nccataagtc atgagtgaga tgtgggatat ggcctctg 338

<210> 16380
<211> 418
<212> DNA
<213> Glycine max

<400> 16380

tgtagaact atcatcacat gatgctttat tggctctgaa taagttgctt tctaagcaac 60
ttgagatttt aacagaaaca cttggtaagt tgccaactaa actgtctatt ggtcaacctt 120
cacattcttc tgttttgcaa gttacaagtt gtaccatctg tggtagaggct catgaaatag 180

gccaatgtat tcccgttgaa gaaaacactc aagaaatcca ttatatggga aatcaacagc 240
gacaagggta taatcaagga ggattctcaa gcttccagca gggtccttat aatcaacaag 300
gacagtggag gtcacaccct agtaattagt tcaacaaaga ccaagggtgga ctttcaaaca 360
tgccaatcca acaagggcct aacattcttt acaggactac taagctagag gagacttt 418

<210> 16381
<211> 370
<212> DNA
<213> Glycine max

<400> 16381
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ttgatgacgt gccattagt tggacacgtc agatgatata tgtatgaaat cacgtcataa 120
gtatcaataa cattacgagt cacatggatt ttttatattg aatttcattt aataaactat 180
tttattaata agcattttgt tgggttgctg aagatttgaa ggtttctgga tttgggtgct 240
gcgaaagtac agattttggt ggattttggg gatagagatt gacgtagcgc tgcgaggggt 300
gcggaatgat gaagagatct cgacgatggt ggatgaactg gtcgaggggt gtaaccgcct 360
ttacttaatc 370

<210> 16382
<211> 420
<212> DNA
<213> Glycine max

<400> 16382
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ggatcaactt gaaacttatg tgcttcaaga gagaagaaat cttctttttc cacttgtgaa 120
gatgttcaaa gtttggctat gaagatgggt caaactgaga aacatttggt atttccattg 180
gtttataaac ttattgagct agctttgata ttgccggcgt cgacaacatc cgttgaaaga 240
gctctttcag caatgaagat tatcaagtct aaattgcgca ataagatcaa cgatgtgtgg 300
ttcaatgact tgatgggtatg tgacaccgag cgggagatat tcaagtcgct cgatgatatt 360
gatattattc gaacatttac cgcaaagaag tctcggaaag gacacttgcc tcgtatttta 420

<210> 16383

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1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

<210>	16384
<211>	410
<212>	DNA
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gatcatccta	ctaggacgac	tgagaaaact	ggggcaaata	aagagggtga	ggatgagggga	120
gaaacccatg	ctgtgactgc	cattcctgta	cggccaagtt	tcccaccaaa	cccaacaatg	180
tcattactca	gtcaataaca	aacctcctcc	ttaccaccca	cccagttatc	cacaaaggcc	240
atccctaaat	caaccacaaa	gcctatctat	cgcacttcca	atgacgaaca	ccacctttgg	300
cacaaaccat	aaaaacacca	acaaaaagga	attttgcagc	agaaagcctg	taggggttcac	360
cccanattcc	gttgtcatat	gctaaacttg	atcccatatc	cactcaataa		410

<400> 16385

6878

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 ttcttaattg cagaatttaa acacaaattg atcggatgat attctaacct aattcgtgat 360
 cacaatg 367

<210> 16386
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 16386

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 ggggtgtgtg taactaagct ctaccttctc aaggaagttt tctcaaagaa gcttctcaag 120
 gaagttttct catgaaagct tctcaaggaa gctacctagt ctataaatag aagcatgtgt 180
 aacacttggt gtaactttga tgaatgaaag tcttatgaga cacacttcaa agttctactt 240
 ctccccctct tttattcctt caattacgtg ctccccctc tctctttctc tccctctttc 300
 ttttctcca ttgaagcatc cttccaagct tcttatccaa ggctcatctt ggtggtgaag 360
 ctcttcttct catggcttat tccctagtgg atggcgctc ccttctct 409

<210> 16387
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 16387

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 gtattaaaag cttctcatcc ttagagtgtg cgcccatctt gtggcagtac atcttgagat 120
 gggttttggg acaagtcgtc cttttatact tgacgaagtc cgacactttg aactttgggg 180
 gaataacaac atcgggtact aagcaaagat ccgtcatgtc tgcgaaacaga tagtcccaa 240
 atccttccac ggctctcaat ctttctctga ggagatcaag ctctctctt tcttcggttg 300
 ccgggggctg tcttccgtg gacaaaacta ttggttgtgt cgcgatgttg ggttgaggca 360
 acgtgctggg tgcc 374

<210> 16388
 <211> 424

<212> DNA
<213> Glycine max

<400> 16388

tgcaaaatgg aagcaaagat atctctctat gggtttaaga ataaccctca ttaattcagt 60
tttaacagca ttaccatttt acttgctgtc tttttttaga atccctaaaa aagtgggtgca 120
aaagatagtt actattcaga gaaattttct atagggaggt gattttgagg ccaacaagat 180
cccttgggtg aaatgggaca caatttgtct tcctaagaac aaaggggggt tagggattaa 240
agacttgatc aaatttaatg aggctttgct tggcaagtgg gggtgggagt tggctaataa 300
ttagaaccaa ctttgggcaa gaattttatt gtctaaatat agcggttgga atgaatagct 360
ctctggtaga aacagtagtg atttctctca ttgatggaaa gatctaaaga ttgtatttca 420
atac 424

<210> 16389
<211> 376
<212> DNA
<213> Glycine max

<400> 16389

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attggaagca aggtgcagag tgaatgcaag gaatggggaa gaaaaatgct taatggagag 120
aaatggtaac tacctaaggc agttacgctt ctttaccttt tggcagattc gatccattct 180
cttatcacat agacttgata agcgagccta agtgatgttt gagttttgaa aagctcatgt 240
gcttatcgac tgtactcact cagcccaatt caagaaatta gaaattccag agaaactttt 300
gggcttagcg caaagatata tgctgagcga gttctacaga tataaagtgt cttgcaactc 360
gtgcttagca ggcatt 376

<210> 16390
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16390

tacctcgaac acaacagcga caatgccggc gagattgttc ctcanagtga atgtacctca 60

gctgaccaca aacaccatgt actaccagtc aaatgtacct cagggtgacca gcaattcgcc 120
aatccttgca ccagaaacca aaaaagggtcc ttatcttaac cagaggttcc agaaacagac 180
ctatcacggt catgctcttt agttcaatag aacaacatag gtagacgaag cgtacctgtg 240
acggctcttca gtgtaataac agagcaacaa ccttcgatgt taacaatgca atggagaaga 300
gagcgtgaaa gggttcacag agaagaagaa agcgcgagag ggtaaaccga gaataacgga 360
gcgcgagcaa aatatgccgt gtcaaataca atttaaaatg ttagtttaac atcgcgtttc 420
aata 424

<210> 16391
<211> 204
<212> DNA
<213> Glycine max

<400> 16391
ctatctacaa gaaataaccg ttattcttgg acgcgctcta ctgtgcttca cacgaaccat 60
gctctgacac aactcactcc ttgtattagc acaaaacttg tggctataat gtcggagatg 120
accatggaac gctatgaaaa cgaaaaatac atggatgcac atcaggagga gatgatacaa 180
acctatgcca tattatgaat agct 204

<210> 16392
<211> 323
<212> DNA
<213> Glycine max

<400> 16392
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tttcgtaatt atcatagccg gactctagta tgggtgcttct ttaaaaagtt tgacatagct 120
tagtctgata ttgctgggta ggcttgggga acaatgtggt ctattgggtct ttggaaagga 180
gctagataag gtgtggaata catatcaaag gacatggcag ggaaggatct atctatgaag 240
tctatacgat ttagtcacgc aggggtgtgtg aagtcatacg gggcccattt ttgacagagg 300
atggggttgat ctgggttatg ttt 323

<210> 16393
<211> 377
<212> DNA

<213> Glycine max

<400> 16393

ttgcttgtca tttttctgag tgactcatac cagccctttg agattacttc aattattgtt 60
cttcaaaaaa cttgtctttc tcaatacatt tacacaaact caccaatagg cttaaactcg 120
gaaggtttat gatttatgtt tagaaggttt ttcataatta aaacacaaag aattttggac 180
tcaacaatgg agtctttgct aagaaccaga catgagagct agttgagctt cctatgggaa 240
agaggaaacc tctattatca aaaaaataaa gggaaaagtt cacggctcgc ctactagcaa 300
aaaggcattc aaagaagaag aggattgact atgatgagat tttctcccca atcgtaagac 360
atacttctat cagggtg 377

<210> 16394

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16394

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acgatcttct ttattcctaa tttttatctg tctaggaata cgagtatata taaaacccaa 180
ggctctgcct tggtacagat tcttccaaaa cccaaggctc acccttggtg cgtactcctg 240
taaaacccaa ggcatcccct aggtccactc actcgcacaa ctatgacgac cacaatcaaa 300
ggctctaagtt caacaacaca aactaccacc aaactatttg gcaaggcctt tcaatcaggt 360
ggaagtcata cttgtctctc aaaaccatca gagaagaagc ttcgcaagtc aaaac 415

<210> 16395

<211> 375

<212> DNA

<213> Glycine max

<400> 16395

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taacatatcg agaatttcga aaatgaacac agaatctcct agcgaattca aaccacctaa 120
cttttgacac ggatatctga ttgccacca taacacatcg agactctcga aattgaacac 180

agaatctcct ggcaaattca aactgccgag acttttcaca cgaatgtatg attgaggtca 240
 aaaatatatc tcaacgctca aaattcgaca aagaagcttt ggggaaattc caattgtgat 300
 gacttttgac tcgggcatcc gattgaggct tgagatagaa tctcctagca aattcaaatt 360
 gccataacat ttgac 375

<210> 16396
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16396

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 atcgagacgc tcgtaattga aaatagatgc tcgtagcaaa ttcaaacgac aataactttt 120
 aactcggatg tccgatggag tccctgcaata tattgagaca ctcaaaattg aaaatagaag 180
 ctctgagaaa attcaaacga caataacttt ttactcgaat gtctgattgt gtcccgtagt 240
 atatcgagac gcttgaaatt cagatcagaa gttctgagca aaatcaaacg acaataactt 300
 ttaactcgaa tgtccgattg agtcccgtaa tatttctagt ctcacgaaat tgaaaacaga 360
 agctctgagc atattcaaatt gacaataact ttttaatcgt atgccgattg tgtcccgtag 420
 tatattg 427

<210> 16397
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 16397

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 atgctgaagc aaccaagggt tttcaaaagt acctagatga gtgccttact gctaagtga 120
 ttatcttggc atcaatgagt tcaaaactcc agaggcaaca tcaagacatg gacccatatt 180
 agatcgtcga acatcttaag aagatgtacg atggcctaaag caggacggct agattccagt 240
 tatctaaggc tctgtttaga tctcacttg ctgcaaatga aaagggttga ccccatgttc 300
 ttaagatgat tgatctcata gaacaacttg agaagttggg tgcactcttg ggaaagagct 360

ttctcaagat ttgatta

377

<210> 16398
<211> 415
<212> DNA
<213> Glycine max

<400> 16398

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agtcaagctt tattttaaata tgtagtatta aaatgtagat taacaattcc aagacagtaa 120
acaaaacccg caattaaaat gacatattta gatcaaacag cggaaattaa aaatattacg 180
agcgtatctc ccgccattgc aaattaaacg ggaagtttgt tcttccagac ccttactcac 240
tctgaataga tgatgtattt tttctgaata gagaagtggg tttggtgata caaaactgag 300
agcacctcat tctatttata gagtctgtcc atcacagagc tctcaagaac gtgagatatg 360
aagggaaagg gaagttaata gtacgtgaga taagagatag aaaaaaggaa cgtgg 415

<210> 16399
<211> 597
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16399

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gannnnacag ctcgngnacn cncgcngaa tcgcgtctcn gacgnagcac agtcgatgct 120
ctatcncctt tgtcttttta ctanacaaca ctcgcagacg catctttgag tcgaagtaga 180
acgtcacagt cgcgacgtct ctacgtccag acactaatta gacgctctag tcgtcttgct 240
atccgtaatc tgatgacgta gaatacctgc tataatagct tcgagctgag ttcaacgaac 300
cacacctgga ctgtactcca ctgtgatctt ctcacacacc attcgtcggg ctcgcctctc 360
gtctaggcac agagcagatt gtttatcctg acctcttcat cggtcgtccc gtcgttactg 420
tataaactca cagatgctta agacgacgcc gcagctatgc tccatcacat tatcctcgaa 480
gagccgtaaa ttctcgtttt aacgcactgg acattatctc gatcttttga tcgctaaact 540
cgagtttcac aaacgagaac tgtcaccgcg atttcgtcat caccgcacct tggaccg 597

<210> 16400
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16400

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 caaaagtaaa aaatgataga aaaataacaa aatcatgatt tatttaaaaa aaggtaacaa 180
 gagaaatgaa taaagacttg tttatcgaat aaccaatcaa gctttgcaac tagtaaaaaa 240
 agctaaaagc aagctgaaat gttttttcaa acatactatt tgtataatgg gacaaatatc 300
 acctcattat gcttatcaag tctatagggt ctgtggtgct caaccatgtt aaacctttat 360
 actaaagcan attagacttg caaaaccatt ttatttattt ctagacttct atgtacac 418

<210> 16401
 <211> 254
 <212> DNA
 <213> Glycine max

<400> 16401

gcaattcagc tcggacccgg gatcctctga gctgagctgt tgcattgcttc tttgcgaaaag 60
 cttgacgctg gagctgaact atccacttcc ctatctcttt tagactgtag atccctaggc 120
 tcttgacctt gacttgatag aacctgtttt tatgagaagg cgtttgactt gatcccatgt 180
 tttactttcg tgaacagaca tccgcgtgat tcaaaactcc tacatctatc atgggtggaa 240
 tggatgcatg cttg 254

<210> 16402
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16402

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 caggcgaact cctggcagtc aaccaataaa gtccacagag caaggaggct tgggtggcgg 120
 ctggccagct atggatcttg agtggatatct ggaatatggc ctctggtaat cgattaccaa 180

gggtttgttaa tcgattacaa ggcttaaaaa tggaaacagg atgttaatat ggcctctggt 240
aatcgattac caaggggtgtg taatcgatta caaagcttaa aaatggagac aggatgttaa 300
tatggcctct agtatttgat taccaagggt gtgtaatcga ttacagggct taaaaataga 360
gacaggatgt taagatggcc tctggntaat cgataccaat ggtgtgtaat c 411

<210> 16403
<211> 352
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16403

ttgcatgcat tcttntggtg ggacatggtg acttgctttc caatctgaca ttcgccacag 60
atcctgcctt cttctatttt aagatcgga atgcctctaa cagcaccttt gtcaatgatt 120
ttcttcatgc ctcttaagta gcacatgtcc aaatctttga tgccatattc tgactttatc 180
ttctatggac gatagacatg ttgaggagta gctggtttct tgaggagtcc ataggcagca 240
gatgtccttg gacctgctgc ccttgattag agcttcactc ttctgcttcg ttaccaagca 300
ttctgacttt gagaagctta cattgaatcc ttcatgacac tactgactga tg 352

<210> 16404
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16404

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tctttgcatc aatctttgaa atctagaata taacgtatga atgaagacat gatgaacgcc 120
atgattgtat atacaagcca attgactaaa aagcttacct tgaatgataa ttgtatcctt 180
tgcacccttt gtgagctaaa ttacattttc aaaattgaac cctaaacttg aataaatatc 240
tctagatacc ttgcttacat tctatgagag catatggctc aaggaaaatt taccctaaac 300
ttangggagt ggagtcgatt tggatgtaaa gaaaaaggta aagcgtcaac acacacaaca 360
aataagtggt gtgctaaaca aaatgtaatc aaagaaaatg tg 402

<210> 16405
 <211> 334
 <212> DNA
 <213> Glycine max

<400> 16405

tgcttgagct gaaaaaacta catctctaga atcattatga agaataagac acgcgtgcat 60
 gacgcattac atagcctacc tattgagcta cgcttcatat agtactattc agtcgtgcac 120
 taacctactg gtacctgtat tataccgatt gacacatcct tgtatgaatg atattacgta 180
 cttatgggac accagtatct ccgcattttc catcgatgtc acattgctgg atagtgcata 240
 ttcaaagcac attctcccaa taatcctcaa caaccttgct tatgctgtga gcacaaccct 300
 cagattagtc atgagcatgc ttgcatagac atac 334

<210> 16406
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 16406

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 tgctcttcct tttgacgatg gcctatgtag tgtgtatata ctcaagagct acacaaacga 120
 ttgcatacac tagttggagg ctatagcaca aagagaacta atgtggtgga agtcaagcat 180
 ttgttgactg tgtcctcagt cctcttgta actttacaaa gatcctatca tttagtattt 240
 ttcattcatc taataaatac tttttgaatt tcgaaagata tgtgacggct atgtgcacat 300
 agttgtgtg tgacttggtg agacctgga actgcttcag ccaatgtgat ttggtcctgt 360
 gctttcctta tagtatgttt atgagccac 389

<210> 16407
 <211> 287
 <212> DNA
 <213> Glycine max

<400> 16407

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 gaagaatata tcatatctgt gtgattcaat aaccaccatc gtgatatatg acgggactta 120
 gatctaacat ccgagcaaaa agttattgcc gttggagttt gctgtgagct tttacattcc 180

atggcgaccg tcttaatata ttacggatgt caatcacacg tcctagtga aatttattgt 240
 tgtttgaatt aattctgagg ttcacaaatc aattatgagc gtctcca 287

<210> 16408
 <211> 348
 <212> DNA
 <213> Glycine max

<400> 16408
 ttgagcta tcaaacgatt ataacttttt actttgatgt ctgaatgagt cccgtaatat 60
 atcaagacga tcgaaattga attctgaatc tctgagctaa ctgagacgac aataacgctc 120
 tgctcggatg tctgattgcy tcccgtaatc tattgagaca ctgaaattg aattctgaaa 180
 ctcaaagctt attcacacga caataagcgt ttactcggat tgctgattga gtcccgatcat 240
 acatcgagac gctccgaaat tgaatgttga agctctcagc acattcaaac gacaataacc 300
 tttttactca gatgcctgat tgactcgtcg aatatatcga gacgatcg 348

<210> 16409
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 16409
 ttgtcttctt gcaagatgga agcaaagaaa tctatcaatg gggggtagaa taaccctcat 60
 taattcagtc ttaacagcct taccatcta tttgctgtcc ttcttcaaga tacctaaaca 120
 tgtggtgcaa aagattgtat ctattcaaag gaattttctta tggggaagtc accaagactc 180
 caacaagatc ccttggggag gcgccatttg cacatgaatc actcttgagg caaaaatcaa 240
 ggatcaaattg gctcatggaa ggtgacagta acacatgctt ctttcataaa tccataaatt 300
 ttagaagaca ttataatgca gtctaaggaa tattcattga aagtatatgg gttcagcaac 360
 caaaatt 367

<210> 16410
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 16410

tgttgacacg cggagattta tctcatctt ccggtacac aagatctgtc atactgacat 60
ttgagtcacg ctgacgggcg gaaatacccg agtgggtatc cgtataaaca ttcttttgc 120
gtctgtaaga caaaaagcct gatagcacgc agagactaac gtcgtcttct gcacccctcg 180
tcaatcgcg cgcacaagcc cggtggcacg cggagattta cgtcatcttc cgcgctcaca 240
agatctgtca tactgacatt tgagtcacgc tgacggacgg aaatacccg gtgggtatcc 300
gtataaacat tctttntgct atctgtaaga tgaaaagcct gatagcatgc agagactgac 360
atcgtcttct gcaccctttt gttccccggn gacaacaagt cagttgcatg 410

<210> 16411

<211> 375

<212> DNA

<213> Glycine max

<400> 16411

ttcttgctca gtgtctctat gagagtctct agttgcttgg ctaggagctt attctaggct 60
agtagtgcg cttgtgatgt gagctcgaga agactctttt ttataggtgt gtaggcttaa 120
tcacgaagga tggcattgtc attggctgtc atattttcaa tcaacttcat agcttcatta 180
gggtgtcttta atttgatctt cccaccagtg gaggcataa gtaactactt cgaatgggtt 240
cgcaagccat caatgaagat attgagttga acccgaggat gggagtcttc cagagtaaac 300
catggaagta gtcaagagct tctctcagt atccatcggg gaattgatgg aatgaagaga 360
tctcaacctt tccct 375

<210> 16412

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16412

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tatatctatg aaatttatct ggatgaatat ttgggttgaa tagttaactg agccattgc 120
atttattatg tccgaatata ttcaaaggat attgaagata tcatatgttt aacatttatt 180
attaagattt agagtttaga gtttatatca ttatgatatg tttttatctt gtctttggat 240

ttgtttcatt	tattagaact	cttattttgt	taagatttgt	tttctctttt	aggatcaaaa	300
tcttatttta	tcatatcttt	agttcatata	agattattgt	tttatcttat	ctttagggtta	360
gacactatta	aaatttggtt	tccgtcactt	gttntgtatt	tccctataaa	taggaagcca	420
tg						422

<210>	16413
<211>	379
<212>	DNA
<213>	Glycine max

ttcttgccat	tacaccactt	gaccattcaa	ctaggctgca	tcaagatgaa	gggaaaccat	60
atgaagatgt	agcatcctac	agaagattga	ttgggaaact	tctgtacttg	aacaacacta	120
ggcctgacat	cacatttgcc	actcaacaac	ttagtcaatt	cttaagtaaa	cctagtatga	180
cacactacaa	tgctgcctgt	agggttggtta	agtacctcaa	aggcagtcct	ggccgaggcc	240
tgttcttccc	aagaaagcca	gaaatccagc	tactaggatt	ttctgatgtt	gattgggggtg	300
gttgcttaga	ttcaaggagg	tccatttcag	gatattgctt	cttcttggga	gcattcttga	360
tctcttggag	agctaagaa					379

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<223>      unsure at all n locations
<400>      16414
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ttg

423

<210> 16415
<211> 379
<212> DNA
<213> Glycine max

<400> 16415

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tgctgaataa atgacagctc agcggcagtc aatgaaggcc tgtgggttacg acgggtactg 120
tttacctgtg aaaagagcat gcaatgtatg cgtgagatgc acgcgaatgg ggccacgtgt 180
gcggcagaca gcaacgcggt tgtggcgtct aggtcatcaa agacaggcaa tgatgggtctc 240
tagtaggcac cgacgaaagg gcgtcgggaa ggcttccaaa caaggcagag acgcagtggtg 300
gtactgttca ctgcgatgag ggactgcgca agcaaaaaga agtgcgtgag aacacgccgg 360
tggttcttca agacatgat 379

<210> 16416
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16416

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aggaaaatac acaaaagtaa aatcagggtca gaattttcat gcaacaatct aggtttgagt 120
cattgatagc caccatcatc aaatattaaa gagattactt tcaaagatga tcattataaa 180
ataaaactat canagaaaac attttgtagt gtcacaatgt ataaaaatga cccgttggtc 240
atacataaca ttccccaacc aacagcatag aacaagcaag aaaatggtag ggctatagag 300
tcctcgtaaa gatagtgcaa gagatatcta agagaaagggt taaccacatt ttgatattaa 360
aactcatctt acacgatagt ttcctttttt tccttttcaa gcacgtagat tgagcaac 418

<210> 16417
<211> 378
<212> DNA
<213> Glycine max

<400> 16417

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 aaaatgcacc catatacaat caaggcacct tcgttaccta gattatttac atgtacttcc 120
 aaggtgtatt tggtacctac atcacacaca tttcctttgc taaattcaca tacatgcata 180
 ctctaagcac tttgtctatc aaaaattgca tacgtgcaca tcttggtatt tctaatacct 240
 atacatacac aaacttcatg atgaatcttg actatctaca caataagggtg ctacatttca 300
 tgctttttgc cttttttttt ttcaagtgtt tttttttact acctagagtc gcatgcaaat 360
 tcaagaatat tttctttt 378

<210> 16418
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 16418
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 tatatagtaa cttttcacca caatttaca gtttccattc aactgtaccc cattccacca 120
 tattcttggtg gctatgattg gggattaaat gatagtattc tgagaaatta ccgtactttt 180
 gaaataatac accttaacaa aacaagaaaa tgaaagaata aagcattttg tgccaaaaga 240
 aaatacagat tttgcatggg ccacacaatt tattttacgtg attttttaca agaatacagat 300
 atggagctgc tgtttcagca tatggcctat tctatctatg cttatgggtt tgcacttcag 360
 tcaatacaat aatgaaccaa aatacacaga aggccaaatg gatttttctt aactagcaga 420
 aat 423

<210> 16419
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 16419
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 ctctgtaacct agaccaaacc tcccatgggt ttcagcaaac ttcaccaagc ctatcgtgcc 120
 atcactgttc gggcaciaac ctatttcgag ctcataacca tctcttaaca taactcgggc 180
 caccatgaaa gaggcacctg ataaacatgg ttgtaccgga ggagactcca tgtaagcact 240

gctcataatt tctagtgtt gaaaagatgt ttccaatgac tcttcacag cttccacata 300
 aggtgtagaa gacggacaac tcactagtat gtctcctcg cctgacacta taaccagctg 360
 accttccact acaaacttca atttct 386

<210> 16420
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 16420

ttggcggatc aaggagagt gacctattc attgacatat tagctttgtt ggtgtttgag 60
 accatactct ttccaaatgt agataggcta atgggttttag tagcgatcaa cgcttttctt 120
 gcttatcatc acagtaagga aagcccgatc gttgctattt tggccgatgc atatgacaca 180
 ttcgacctga gatgcgaaaa gagtagcaca aggatcatct gctgcacgcc cgctctttat 240
 gtgtgattgc tctcccacgt gctccatcat gaaggtagac ctgtctgtcc tctacaagg 300
 catcgcatgt gcgcacaaaaa gggaaaaaca aattgggagg aactcttgca agtatggtag 360
 ggggtgcata ccctaatttt gtttgggggc cttcatttac taatgttttg attc 414

<210> 16421
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 16421

tgcttctccc ctatattgct ataaataggg ggagaagtga agaacaaaag ggttcagccc 60
 cttaggcact tctctctctc tcgaaatttc tgaggaaaat tagtttcgtg aagaaaatcc 120
 aagccgaggc gttacgtaa cgtttccgtg agtaattacg cgaagattct cgaccgtttt 180
 tcaagagtca tcgatcgttc ttgatctctt tcagtcttca acgggtaagt acctcacacc 240
 aagctattca attcattcta tgtaccgtg gtggtccaaa tttcgtttca tgtattgggt 300
 attctcggtg tcattcactt tttatacccc ctcttgacga gcttatgcca tttattta 358

<210> 16422
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 16422

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ccaactcctg aggacctggc tatagtttgc agaacctgta atatgtggga aggctctccc 120
ctggctctag aaccaccgga gtctccagga aggtattgag ggaatcaaca tcaaatttta 180
tcaagtgacc tctaacccta acctgttttg gagatttata ctccgggtca tatatattag 240
cataaaattc tttactaaa gccacatcca tgctccctc ggtcaagtta gtcagctaca 300
tgtgctagtt tctgctctca atttctcttc tagattcatc gtattcagtc acaaacagct 360
tgaaatttct ttcgaaaga atattctgac caagaacatt atctgcataa tgatt 415

<210> 16423

<211> 369

<212> DNA

<213> Glycine max

<400> 16423

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cgagggaagt taatgacaga cataacttac tgcttgccag attgtattgg aatatagatt 120
atgatacaga tctatgctgc gagtgcatac tatgttagct ctgccacaag cgtgggtacga 180
aactatctat ttttttagaa aaaaatatca gatatttttt aagaaaatat tatgacatat 240
agcttacta atctatgttg aaattaaagt atgtgaaatt atgaggataa tctatctatc 300
tatatctact tatatgttat atcggagaat tagaagctga cacatagcat ctgacttatt 360
ctgaaataa 369

<210> 16424

<211> 408

<212> DNA

<213> Glycine max

<400> 16424

ttcataaaga taacaaatgg caaacaactc ttatttaact aacatgttaa tttattgttt 60
gtttgttcgt ttgtgtgaaa cataacttga tggaaataaa ggcttttatg aaacgtcagg 120
aaaaaactgt ttgtatgaaa catttttgca taacattttt ttttcatatt actttagggt 180
acagattaaa aaataaataa ataaatgttt ttattgaaaa tacattacaa atcatggtag 240

acatatatta gtaccatttt ttgatataatt ttttccgatt ctaatttctt aatcattttac 300
 ttttttcatt aatgcacata atttatattt gtcacaattt taaaattaaa acattttctaa 360
 cgctggctta taaatgattg caaagtatat attactatcc gttcgttt 408

<210> 16425
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 16425
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 gtctctagac catatcactt tgtagcggtt ttggaagtac ggtttgtgaa caatggctat 120
 cgtgggtattt ttctttgttt gatggaaaaa atatcctctt tgataagtaa aatcaatgac 180
 ctttttcaat actcttctcc accaagatag tgaagaaaac tattcaagca aagtctgtga 240
 ctccctctac ccttcacatt atgtactaat aataaatgga ataagaaatc agaattaatt 300
 aaaagtttttt aaaacacatt taaataagat gctctcaaaa gggcacaaga ctcacattca 360
 cttttctaac atcataa 377

<210> 16426
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16426

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 ttattcccta ggtgccattt tcaagtcata gtaatggcaa gtggcagatt caattntaaa 120
 atatacaaat aaaaatggac actcttcact tttctctgtg tgtgtgactc aatctaccac 180
 aacttagtag gttaagtagg ttgactacta taacaaagag tccaattacc aacggaaaat 240
 taccaacaaa tccaaatctg tacgttggaa atatgagcat tttttacgga ttttctttca 300
 tcgaaaatgt ctatattact gacagaagtt tccaacaaat tttcgtctaa tttttttaaa 360
 aaaaaatcaa taaatattta ttgatgtatt tatatcaatc aaaatgttta acat 414

<210> 16427

<211> 351
 <212> DNA
 <213> Glycine max

<400> 16427

tgtttttata gaaggatcgt tcctaatttc tctacaattg catcacctct caatgagctg 60
 gtgaagaaaa atgtggcatt tacctgggggt gaaaaacaag agcaagcctt tgctttgctc 120
 aaagaaaagc ttactaaggc acctgttcta gctcttcctg acttttgtaa aacttttgag 180
 ctagaatgtg atgcctctgg agtggggagtt ggagctgtat tgctacaagg tgggcaccct 240
 attgcttatt ttagtgaaaa acttcatagt gccaccctca actacccac ctatgataaa 300
 gagctttatg ccttaataag agcccttcaa acttggaac attaccttgt t 351

<210> 16428
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 16428

tgaacatgat gaaactcgtt aactcaatgt cacttttatt cactcaattc gctcaagttt 60
 cctttttcca gtgtactaat gtttgaacc ggcaagtgc ctggattgtg caagtagttt 120
 aaaacggtaa gaatcgagta tcgaactctc gaggaacttg tgttacttcg taaagctata 180
 ttcagtgaat aggtgtctag tatgaaaaga gatgtgtcga ctatgcacaa gtatgtaaac 240
 taactattaa aaggaaaatc acgtgagtaa tgatgtgtaa agacaagtag acaacacctt 300
 ggtcttcccta tttaggtgcc tgatgttaaa aggatattct ctacttaaca atgctcatgt 360
 gttctatggt gtctcctgaa atgctaaacc ccgattcctc atgatagtct atcctaattc 420

<210> 16429
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 16429

aagtctgctc gcatgctttc tttcttcaag cttgttcaga cacaattttc caaaagcatt 60
 aaggctatgc ggtctgataa tgctaaagaa ttagctttga ctgagttttt gcataatgca 120
 ggagtagttc accagttttc ttgcccacac agacctcaac aaaattcagt aatagagagg 180

cgccatcaac acctattgaa tgtagcacgt gctttaatgt ttcaagctca gatgccaatt 240
tatttttttg gagagtgtgt atccacgaca gcttacatcg tcaacagaac atcaagctca 300
aatttgcaga accaatcacc atatgagttg ctatatggta aagtaccagc ctatgatttg 360
ataaaggtgt ttgggtgctt gtgcta 386

<210> 16430
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16430

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cattgctatg tgggtgccact tggcttatca cgggcaacca cctggttatc ctgtgtaaaa 120
ctccatggta ccagaggggt aaggagttat gggcttctct catgatgctt atttgggtata 180
ggggcaagca ttctagattt gatggatgat ggaatcatta atttacagtt aaagttttct 240
taagctcctg agtcttgatt gtttgcaaac tcattaattt attgctgagg tggatcatcat 300
actgcgatat gtatcgacaa attcataatg tatttctaaa atatttggtg gatcaaaaaca 360
cgttgggtata cattactggc ttgcattatc tttgagcact gtcctatgaa tgatacttct 420
gc 422

<210> 16431
<211> 347
<212> DNA
<213> Glycine max

<400> 16431

ttcttataca atggagggta caaactacat gaactggatg gaaaagcaat tccaagaaca 60
cggaacacta cccatatgaa gatctacttt agttgacctt atgcaagatt ggatgttgta 120
ctctttttcc tacttaattc ttttgacctt gtcagacctt aattttgtcc ggggactatc 180
atttgctaac gttttgattc ttgctaaccg aattgagctg cttgacacca gttgctacgc 240
aatatgaaag gtttttcgat gtttcgcgaa agaattgtaga aaatactcaa atgggagggc 300
aaaagggtca ttttggagtt attctgacct ctggctcgcc caggata 347

<210> 16432
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 16432

tagattgaat ccaaagctat attgttaagg caattggaca ctcaaagaag atgctgagag 60
 tagtggtttta aaacccaaac cgaaccgata ggtcagattg gtccaagata aagccttttcg 120
 attgtagctt atcaccagaa agaattttcc agtaataatt tctagagaag aaaagaagga 180
 gaaggtggaa tggcttggtt ccaattcttc atccaagga accttatcat cacaaggata 240
 ataggtatga cttaattccg aatctccaaa aacatatcag gaaaccaagc ttcaagagat 300
 gctggaagag actaagaatt tcttgagata aaatcttcta ccttagcttc caacaagcta 360
 cgtaattgat atggaatatt acaaagattc acaacaaaat cacta 405

<210> 16433
 <211> 496
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16433

caaaccacg caaaacccat gaaacccac aacatgtatc aaaccagaag agaaatgaac 60
 atgatgatca atgcaacann ganaaaagag cgcacaaaag gacagaaaga ggagaactcg 120
 cggattccat gctcagcaca gaaggcaacg aaaaaggtaa acaagcataa aactcaagg 180
 aacgcgcgaa caacaaagcg gccatcccat ggggagaaca ggacaaccac ggcgcaaac 240
 cgccacgaga ggagctcaag gaagcacacg aaaccaaccc ccctaaaagc cacagcaaac 300
 aggagccaaa acgtgaggac accagagaga aaatacgaga aggagcagca aaaagcgcca 360
 ccaccatagc gataaaccgg gaaaaactaa ggagcacata ccacaagacc cacacacagg 420
 aaaacaagcc cagcgcaaaa ggacgagaac accaaccctg agaagatgca ccgagcaaca 480
 acgcaaacca aactac 496

<210> 16434
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 16434

agaatgtcgt catgaactga acagacaaaa tcccgtgcct tagaattctt caactttgcc 60
accagttctg ggctccacc ccagcatctg ctaatctaaa gactcttagg cccgctcaat 120
taatcaagag aactcagaac tctcctgaaa acctttggct atatggctcc ttgcaagccc 180
cacaaagacc aatagagagt acacaatcaa taccgtacat tgaaaaaggt tgtccagata 240
tattcaaccg attgatcgac tc 262

<210> 16435

<211> 378

<212> DNA

<213> Glycine max

<400> 16435

agcttcaaga ataatgacat catccaatta tttatttccc gaagggaatt ctataaatag 60
gcctectatt tttaatggcg tgggttacca ttattggaaa acccgcatgc aaatttttat 120
agaggtaata gatctgaata tctgggaagc aatagaaatt gggccctaca ttcccactat 180
ggtggcagga aatacaacca tagaaaaacc tagggaagaa tcgagtgagg aagaaaagag 240
attagttcat tacaatttaa aagccaaaaa tataattaca tctgctttag gaatggatga 300
gtacttttag gtatcaaatt gtaaaagtgc aaaagatatg tgggataccc tacaattaac 360
acatgaaggt acaacaga 378

<210> 16436

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16436

tataagaaca aaattgcctc aatcatttcc aaatatgcat gtgaattatg atgcatcaac 60
aagaatcaag ccaaggctat tgtgcaagca atcaatgggg caaaacacgc caaatgatta 120
tgatgatgga tggctcaaatt tctcaciaag gtaaactcat cactttcaaa ttgagctttc 180
aaaactatca tgacatgtag aggagaatca aggatttcaa gtcacaaaat gtcaaaaact 240
tttattttca aaacaattac ccatttcttg aacatatect ataattcaaa gaaaaacatg 300
caaagtcgta catgcacaca aaattgaccc aaaatattaa actaacaatc cgacgaaact 360

aacaacatta acaaattaac aaaaccaaca aaactagcan aaccaaagaa cactcccccc 420
cccat 425

<210> 16437
<211> 376
<212> DNA
<213> Glycine max
<400> 16437

tgcttagaat tggaaatggg atattgaggt ggcctctggt aatcgattac cagtgccgtg 60
taatcgatta cacagagtaa caggccactg gtaatcgatt accagttatg tgtaatcgat 120
tacacagtgc atattgcagg tttccatggt ctgaagttgt gtaactcgag tttggcctat 180
ggtaatcgat taccaatggt gtgtaatcga ttaccagagg agaaaaccct tgaggcatac 240
tttttaactt catgtagtgg ttatgggaca cattgtgttg ttaaccgtag ttagatttct 300
cgtgaaagag tctaccctt tcttttattt cttgtagatc gcgatgacaa tgcaattaat 360
ccatgaccga gtggag 376

<210> 16438
<211> 421
<212> DNA
<213> Glycine max
<400> 16438

ctaagctgct tgggagcttc tatggagggtc ggatctttta tctttattga ggtccttcaa 60
tggtgatttt ccaccatgaa gatgcagcgg aaggcaaagg agaaaatgag attttccacc 120
atggggggta ggattgcac atcctttcca ccttggaat gatttgacct caaatccga 180
ggttcttcat actctgggct ccttccttg acacctataa aaagaataaa aacatatgta 240
ttagtggtgt tgggtatggt agagtaggta aggtctgaaa acccctttca tagagatttt 300
cccatgagga aacatgggtc ctcaccaact caatgagtgg tgctacaagt atagaaaaat 360
atgggacaaa tcttttgtaa aagtttgta agtcatggca gccccgaatt tcccttatac 420
t 421

<210> 16439
<211> 376

<212> DNA
 <213> Glycine max

<400> 16439

tagcttctta ttcaatgctc atcttggtgg tgaagctcct tcttccatgg cttattccct 60
 agtggatggc gcctcctctc acctcttctc ctttgtcttc cgctgcacct ccatgggtgga 120
 aaatcaccat taaaggacct cattgaagct caaagatcca gcctccatag aagccccaca 180
 agcaagcttc catcaagtgg tatcagagca caagagcttc aagtaggtgc tccttaaacc 240
 tccattaatt ttttgcttta ccttctcttc cattgttgtt tcttcatttt ttctccatgt 300
 atcgccctac atgtcttggtg ataaatgttt ttagcatgat tcttttagagt ttccaccgat 360
 taaacttgct atagaa 376

<210> 16440
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16440

tgaagggaca ctcacatttc ctacttccag tatctcttct aacaaattct ttcttctac 60
 acctatactg accactcctt tcacaaccaa ttaacacaaa tgaactcctt cctctactat 120
 cagtctgtgt cagacctcat aatgattaca acaaattccat ttttatgagc aactgatcaa 180
 gccactgca aaacatcatc tcaggtatca aacacctaca acgcaatcca ggcaatttta 240
 gttttctaca acatattcat tttatgaaat cactcacaat aacgaacatt attacctaag 300
 aagtattaaa cgcattccgaa caatcaacat gtgggttcatt cacaccacat tcttggtcat 360
 tntgatcatc catatcaact tctttaggca ttatactgtc atgcatccat tgatcttcgt 420
 tcatc 425

<210> 16441
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 16441

agcttgatg attatggggg acccatcaca tgtggtacta ggtggcggtc gggcaatggt 60

gcacaacaag ttttccacat ccacaatgcg cgcataaacc caccatcccc tgttgcccac 120
 ctccaactga gctcacgtac tcccacgtag cccatatacct cgtttctctc aacaccgggt 180
 ccccatcaat cctcccaagc ttccacaaca tccaagcaaa acaacattca cacagcacia 240
 gctatcacag ccaagcaaaa caaagcaaag gcagaaaact ctgccaaaac accaaccaaa 300
 aatcacagct tttccactc aaagacccca gtaacaattc cttcgatcca atttgtaa 360
 cgttggatcg actccaaaat 380

<210> 16442
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 16442
 tgtcctgtgc ttgtgccctt gtgcttttgt gctttctctc gcctgcattt caagtcaccc 60
 ctgcacattt cttgctttca tcttacatcc tttactccat cataatccaa gtaagtagtg 120
 cttcatttcc attttcattt tcatgctttg aaccttagga tagacgattt cttgctttgt 180
 tagcttgccct tgctgttttag gttagggttt ctagcttttag ggtttgttat tttaggattt 240
 aggttgagtt gtaagcccat taggggcaat gctgctaaaa ggggtgaaga cccctgtggt 300
 tctattttaga aattgcatg gacacgctaa gtgcgcctgc tacgcttagc ttgtttatca 360
 cagctgttaa attttttgat ttccagatga gggcgctaag tagaccatgt cgcgctaagc 420
 g 421

<210> 16443
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 16443
 aacaaaagac atcctataag aacattgcgt aacgcacatg cctcaattca gccgtctctt 60
 aatcatcagg gacattggac tttcctcgac gtcgacaggg gtccagaagt aaacatatac 120
 tagattacca ttcggttctc aacggaataa atcagaccct ccgagaatgg ctcgactcag 180
 ctgtacatac tgcccaactg tacaatgcgg actaatataa gatatcagcc cagttcccgt 240
 tgtcgagaat gaccttgac actatgaacg tagccaccta tatcttgatg accatcggag 300

cattgtgacā tcttttcagt accccgcaat ccttgattgt gaaaatgata gggggcat 358

<210> 16444
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16444

tatgctcttt nggaggcaat aaacatttta ttgttattta ttgttatact ttaataagat 60
 tatatcaaāt ggacataaaa agtgcattcc acaatggact aatataagag gaagtctatg 120
 tagaacaacc ccttgggttt gagagtaaca ctttcacaa catgttttta aactcattaa 180
 agctttgtat gggctaaaga aaactccttg agctttgtat gaatacctta gttcattcct 240
 tttgataaat ggttttgaaa gaggaaaagt ggatatagct ctattctgca aaaactatga 300
 ctcctaattt atattagtac aaatctatat ggatgtcatc atacttgggtg ctactaatga 360
 acctctatgt gaggatttct ctaagttaat gtacgttgaa tatgaaatga gcatgatggg 420

<210> 16445
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 16445

ttcttgcgta gccgctcttg gtgctcacia aataccaaat acaaātccct cttattacta 60
 gctatgtttg aatgcttttag ttactgaatg tacaaccttc aaattgttgc tcatccct 120
 ctttggtttc tgcaaaaaag aaaaacaata tcaaagaaaa cattgacaga taggtcatgg 180
 ttattattac tcgaaccaa aggaataaca tttaaacgag tcatattatt tttagaatgt 240
 gaaaactcta catatctatg gagaacatgg ggtatggagg cacgtaatca tgtgaatacc 300
 acaagtcatt ttctgcaatt caaggactgg attaattgct ctaggataaa agcatacgtc 360
 tcggatattg 370

<210> 16446
 <211> 308
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 16446

gtgacgtata gaaactcagc taagctctag aagcgtctag actcttttat ttgtgagtgt 60

gctgctggaa cgnnnaccgc ctgaagacac tgctgaatc tgatgctggc ctttctggac 120

ctagcttggc acgctgccgc catgtaaatt gtcttcccat cacaccttga atgctgctgt 180

caccgtatac acgtatcagc taaatcttga ctggtattga agccttccat tgacatggct 240

tgaatgctaa ggtgcatcc catcccactc ctctggcct atttatccac atgcattaca 300

tcaataca 308

<210> 16447

<211> 378

<212> DNA

<213> Glycine max

<400> 16447

tttgcattgt ttttttattg aaaatttaag ataccctgt acttcaggga acgatcctag 60

tcttttgtaa taaatgacta ctccatggac taacggcttg actgatttat agaataccgc 120

gtttatcttt ctgaaacaaa cgttcacact gttcggactt gactcttgat tcccttgacc 180

atagtgaagc ccctaaaact aaaaacagaa cattcagaaa aagagtacta ctttcaaccg 240

acgatatttt gggaacgtaa ttgaattctc tcttcgaaaa ttctaataa tgcaaaatat 300

gccccaaaac agagtgtctt ttttagttca attctagtat attatcaata taaaaaatta 360

tattattaat tgattaga 378

<210> 16448

<211> 415

<212> DNA

<213> Glycine max

<400> 16448

tattttcaag aatacattta tgatgatatg tgatttcaaa tattaaggga atttttacct 60

tttatcttca agacattatt ttctcttagc atattaatta gtgggtcaacc ttccccattt 120

gttttgcttt attcaaacga atttaatagc ctccagagaa gcatgacctg catgtatccg 180

taactcatca aaggagatta ggcatgtact tcttccgttt catgtcaagt actgggtgtca 240

tagatctttt cacatatcag aaaagttaat aaatcactaa ataataataa tcttataaaa 300

ttaaccttat ttatattaaa aagtaaattt taaaacttat cttttattac actacagtta 360
 ttatatgaca gaaagtatat agcatgcaaa cttgtatttt cagggtcaag tttat 415

<210> 16449
 <211> 363
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16449

attcacatag gatacgcgac acaagataac aggcagtcaa ttatacatat caagaaccag 60
 gaatagtcag gtgtagcgac agacaaccag catatagata gccatgagaa tgcgaaaata 120
 aatgcacaca aagaggctag aggaaagggtg attgacgccc tcagcaacag gcagcgcgcg 180
 aacggaccgg cttgctatta ccagaacggc aggcaagata ttgcacgntc ggaaacaagg 240
 ccaaggcaga tggaagacac cactccacc caccaagaaa ttcaagggtt tctcggctat 300
 tgtcgacaca agataaactc actggaccac attatggaaa ggttggatgg aaacacagat 360
 gcn 363

<210> 16450
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 16450

gaggaaattc aaacgacaat accgttttta tttttgtcgg attgagtcac gcaatatcgg 60
 gagacgctgg aaattgaaga ccgaagctct gagcaaattc taacgacaat aactttgtac 120
 tctgatgtcc gattgagtca cggaatatgt cgagacgcta gaattgggat accgaagctc 180
 tgagcatatt catacgacaa tgcctaataa ctcggatgtg ggattgagtc acgtaatatc 240
 tcgagacgct cgaaattgaa taccgaggct atgagcgaat tcaaacgacg aataactttt 300
 tactcagggtg tgcgattgag tcccataata tgacgagacc ctcggaattg aataccgaag 360
 ctatgag 367

<210> 16451
 <211> 354
 <212> DNA
 <213> Glycine max

<400> 16451

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ttcttcatgc acaaagtagg ctaaaaaac tctatgtctg acctacacaa atttgtactc 60
ttccatctga tggacgagac ccctttcgac cttccacaca ttgtctacat caatatttta 120
aggaacatga agccctcggg agaagtggat gacatctact atgccaccct catcagcaaa 180
ctcctctggg aacaccaagt attccatgtc ttgaaagat tggacgagga ctccaagcag 240
tccatcatca gtaaaagaac tttcggtgcc acacagtaac acttttagtca acaagcttgt 300
tgactgtaag caacaccagg taagacttat ctattagtgg gcaccttgtc tact 354

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<210> 16452
 <211> 334
 <212> DNA
 <213> Glycine max

<400> 16452

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ccccaattta atggattttt aaggtttgag aagtgaaatt gagaatgagg taaatttggg 60
gcaaactctc accgcttaca aaaattccgg gtagaaattt ccaggatgtc acacaaacaa 120
acatcaaaag aggatccata tacagtgaat tcatccataa acacctcgat gcaattttct 180
aaaaaatcac taaaaatact aatcatgcac cactagaaga taccaggggc attgcacatg 240
ccgaaaggca tcctcctgta agcaaaagtg ccaaagggac atgtgaatat ggtcttttct 300
tgatccttat gaacaatagt gatttgcata taac 334

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<210> 16453
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 16453

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tttctttact aatagtggca catttggaga aggggttctg ttactaccc ttgacaaaac 60
aacacctttc tatgctaggg cttgttaacg aggtgtacca ttccattgct atattgtttt 120
gtagcacccc agtgtggtct agtaagatca ctaaaaatag tatcaaaatt ggaccacttt 180
gtatttaatt attcatttat gtgagatata tatggggcac atctacttta ccacatgaaa 240
gttgaaatga acctgtgacg cgaggaggat tccaatgagt tcaagaaaga tgaagaacat 300
tcgtgaaacc acgacctagt tgggagttaa t 331

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<210> 16454
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16454

nggctcctct gtaattgtt tctgtttgct tccctagctc ttcgcatagt gacattttat 60
 gctacgcagc ttcttgggtcc aaactaccat tgccgagagg tatacttatt tgagaatgtg 120
 tgcttttttaa acaaacatca cgtctcttaa aattaactgt ttcttctttc tgggtgactgt 180
 gagtggtaaa ctatgcaagc tggattcttt tcaaataatc ttttgattta actccacttc 240
 atgtatcgtg caggggtcta aacttgctac actgcctcat ccagatagtg acgttgaagt 300
 cctcttgatt aattgctagt atactattgt tcttgagttc tttagctttg actcctttgt 360
 ggtgttatgg tgctcatttg cgtttcatca tgcagttcca cgt 403

<210> 16455
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 16455

tgcttgtctc agcgtttatg cgagacggag accaacaatgc tagctatcat cgccaagtac 60
 caagaagagt taggtctagc gacggccac gagcatagaa tcgcggtatga gtatgctcaa 120
 gtatatgcgg aaaaagaggc tagaggaagg gtgatcgact ctttacacca agaggcaacg 180
 atgtggatgg accggtttgc tcttaccttg aacgggagtc aagaacttcc ccgcttgta 240
 gccaaggcca aggcgatggc agacacctac tccaccccg aagagattca tgggcttctc 300
 ggctattgtc agcatatgat agacttaatg gccacataa ttagaaatcg ataggaaact 360
 tgtat 365

<210> 16456
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 16456

taaagtatgc ccgagtcatt catccctatg agatgttggt gaagtattgg cgatcagaat 60
 tgccatttct tggattatag ggttgaacca agctcatgct tttaaaaaa ggttcatcaa 120
 gtcaagttga aatatggaag taaccgtctt gcaaaattgg ggcaaaagac gaatcacatc 180
 actgcttcgt ctactgcaa acatatttag gattgttgat gtccttggtta cttccagttt 240
 caccttgaca aagatgtcat ggaccatggt gaaaatctaa attgattcaa ccccatatcc 300
 tgcgtaaaaa ttcgcaatac ttcgactgta catcattcgc atgcatccat gcttttcatt 360
 ggttgcatg ctcatgcat tctttccttg aaaaataaaa taaaat 406

<210> 16457
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 16457

tgcttaacat taggcatgtg aagcgggagg aattcctaga ggaactccct tatgttatca 60
 gacataaata gggaaaagga aatgttgtag ccgatgctct ctctcggagt catgcattac 120
 tttctatgct cgaaacataa tagagcgccc atgaatgtta gcaccgcatg tctgaacatg 180
 atgaggcttt tggagaaatt tttaaagctt gagataaggc atcagaaaat ggctacttta 240
 gacatgaatg cttactttcc aaagaaaaca catgggtggat gcctaaatgt gctacaagaa 300
 aatggcacgg ctgtgaagca catgaatgag ggtaaatgag gcatttggtg gtacataaga 360
 gtctaa 366

<210> 16458
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 16458

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 gcctatggag tgagacctaa agctgtattg aataccaagt gggcactcta ttgcttattt 120
 tagtgaaaaa cttcacggtg ccacactcat ctacccacc tatgataaaa agctttatgc 180
 cttaacacga gccatgccta cttgggagca tcaccttgat tcccacgaat ctgtcattca 240
 tagcgatcat gaatcactta tgcacattcg acggcaacag caagttaagc caaaagcatg 300

ctagatggct acagccctat agcacttcca t

331

<210> 16459
<211> 378
<212> DNA
<213> Glycine max

<400> 16459

ttcttctcga ccaattaggt tatggataac attcagtaac tttatcatcc tctcgggtgct 60
accctgggct acagctgttt gcaagaagtg acttcttcca gcaagtctag caatattcaa 120
aggagaatat tatgcaataa ccacattatt attgtttcac aatattttgg attattgact 180
tttacacatt ttttggaaga aaaaataatc acgtgaagaa cttttacaat ccactttgct 240
ttgcaaatta ttacaaatat ccatgaacat ctttaacgac ttttatatat ttggattctg 300
gaatggagct tgcattgagaa aatatagcag ataaagttca caagtaatgt taaggattaa 360
ataagttttt aatatcta 378

<210> 16460
<211> 426
<212> DNA
<213> Glycine max

<400> 16460

tgtgtttgtg ctctgcatca gaatagggtg gtttcatgaa catattttta ttccttttct 60
gagctgactc tttaaaatct cttagcctgtt tttaccgggc ctttttatgt tggacactaa 120
aactgacgcc cttttaaaat attgggttatg ctgttaaggg ttttgccttg ttcattgttg 180
attggttcta ttgtattttg ttttatgtct tttttatata ctaaatcaca tgctatttgt 240
ctttttttta tataactaat tgggtgtgaat tgaccaagac tgataaggag tgtttggcca 300
tgttcctagc cattgtgggg catcttagca ttctatttct atttgtcggg aatgatgaga 360
aatacaagtg accaaaaatg tcatatatga aggtcactag ataaatagt cttcatcctt 420
cctgtg 426

<210> 16461
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16461

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cttgggggcg taggaggact aggaggtttc cagccagtga tcttatagaa gtagtccta 120
atcatgaacc atctgcaagc ctcttttta gcatgagcat gatccttcaa ggcttgagca 180
agagcttttc ttgttctggc aagttcagct tcaagcaaac taacataagt gcgagaggat 240
ggaggatcat acacttggac aaccatggaa tcagaagcag cttcagcctc aacattagat 300
ttgacttctt caatgatagg atccatgtga tgtgtgaaga agaatttga gaagggagg 360
aatgccatan acaaaaaggg 380

<210> 16462
<211> 428
<212> DNA
<213> Glycine max

<400> 16462
tgtatattgt cttattcaaa acaggaccac ttccatattc ttcccttgca ttggcataat 60
gttcaattac tgtcaaggct tttggagcat ctataacttg ttcaactata ttttgtgcaa 120
catttcgggt gataagctgc atcaaatctc tcttttctct ctgtattctt tcagcacgaa 180
agtatttttt ggttttcaat tgcttggcaa ctttagtttg tatctctctt ttgacaatct 240
tcttcggtat cgcattccaga gaagccccct tctcaagctc ttctaacaat tcttttcttg 300
cttcctcaaa ttccatctaa ttcaattaag cagtgagtg caaaaagtat tgtagagaa 360
aatgaaatat gattgacaat ctaagtaatt aatatttaat actcagcaga aaaaagaaga 420
aatcagaa 428

<210> 16463
<211> 363
<212> DNA
<213> Glycine max

<400> 16463
tgcttgcttg tggggcttct atggaggctg gatctttgag cttcaatgag gtcctttaat 60
ggtgattttc caccatggag atgtagcgga agacaaagga gaataggtga gaggaggcgc 120
catccactag agaataagcc atggaagaag gagcttcacc accaagataa gccttggata 180

ataaacttgg agaggatgct tcaatggagg aaaataaaga gggagagaaa gagagagggg 240
 ggagcacaaa attgaaggga aaaaaaagag agaagttgaa cttcgagttg tgtctcacia 300
 gactctcatt catcaaagtt acaataagtg ttacacatgc ttctatttat agactaggta 360
 gct 363

<210> 16464
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16464

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 cttgtcgaac cctcatttac caagttttct atctactttg tataacgatg aacctcctac 120
 cttaaccctc ttagaaaatgg gaccagtgtc tcttcatcc tcagtggtaa aagccttgtc 180
 accagtatcg cactcatcat ccacatcaa ttcatgcatt aacattcaat tatatgaaat 240
 ctctctctat ttggaaagc atatgttctt tagatttcat agattcaatg aacaatgcac 300
 taccactaaa agtcacaaat gtctttcttg aacctaatta cgacaataac aaacaaaaga 360
 atctaataat ttagcaatac tctcttttct ccactacaaa atgaanagaa aaaagag 417

<210> 16465
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 16465

ggcaatcagc tcgacccggg atccttaagt cgacctgttg catgcatgct ttctgaagtt 60
 ttctggtttt ccaaaccttg aaaacttggt ctattcatct ttccattctc ttctcccttt 120
 gccaaaaaga attcgccaag gactaaccgc ctgaaatctt tttgtgtctc tcttctccct 180
 tttccaaaag aacgaaggac taactgctga attcgtttgt gtctcccttc tcccttgta 240
 aaaaattcaa aacgacacag tctaagaatt cttttgatcc ttccctttcc ctaatacaaa 300
 agtggttcaa ggactaaccg cctgagaatt cttttgtatc cccattcaca aagtatcaaa 360
 ggtttaacag cctgagatct ttgtctcaac acattggagg gtacatcctt tgtgg 415

<210> 16466
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16466

tctgggaggg acatatataa tgcatacaact tcatatcata ttcattttctt actagtttag 60
 taattttctaa ccgagagtat ttattttctcc agtaccatta ttcacgttca atategtatc 120
 aatattattg aaaattctag ggatatgatg agttgacatc aatgtcaatt ttagatctgg 180
 ggtatccagg tcagcataca ccatcatcat gcatgcactt gaactttctt taattttccct 240
 ttgcaacatg gcaatcctta acattntgta ctacttattt ttcccctttg caatgtggga 300
 attcatgaca tttttttgct ttggttgaaa aatgattcgt tntctttacc taaccaagag 360
 acatggtacg tcaagggctt cttgcctaga atacgatgga tacacatg 408

<210> 16467
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 16467

ttcttataga ttgtccaatc cataagtggg tcaaataatt gtttttttat ttttttttca 60
 aaaatgttgt acaaattaat ttaaaattaa tgaccatac aagaatcaaa ctttcgagat 120
 ttgtgttatt agcacaacac tctaaccaac taaactaata aatgaattat attatacaat 180
 aattaatgtc actatatgta atactaaaat ttttaatat taatgcgcac gaaaatttag 240
 ataataaatt ttgcaacaat taattttgat ctaacaatta atttgtttac acatgttcgt 300
 agaaaaacaa ccactagacc acatgtcatt cacatattgg ataattgaac actgcagaag 360
 ttgagtg 367

<210> 16468
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16468

tgaacatctg aacctaagta gcattttttt gtttattttt aaatgtaatt nttgggtgatt 60
 aaaaacaatc ataaattaca aaataaaaaat taaaaaatca aatcacaatt tgtgggtgta 120
 caacaaccac cacacacgtc caaggcaaga gattcagatt gagggcccaa ttgggtggcta 180
 gaacaacggt gttgctggca aagttcaatg taatcactga caacaccatc atagtcaccc 240
 aacgcatcat caagaagctt ncaataggga caaatttcag gctcaciaat tgcaagtcca 300
 cccccgaaa gctccaccc tacaccctca cagatctggt tgtcgatgta gaggcaccca 360
 tcggaagaag aggcaatggt gcacaatgtc aagggttgagc caat 404

<210> 16469
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 16469
 tcattcttct ttgagaaaac ttcttgaga agctaaagct tagctacaca caccctctc 60
 ataactaagc tcacctcctt gagaggcttc cttaagaaga ttcttaaaga agctagagct 120
 taactacaca tacctctcta atagctaagc ttacctcctt gagttgagaa gctagagctt 180
 agctacacac cccctataat agctaagctc acccatgaca aaaaacatga aaatacaaaa 240
 aaaaagtect tactacgaag actactcaat agaatggcca aaatacaagg ccagacaaa 300
 ggaaaaacct attctaatat ttacaaagat aagtgggctc atacttagcc catgggctcg 360
 aaatctaccc t 371

<210> 16470
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16470

tgttcttcac tcattctctc cttgaagtgg catcttcaat cacctttcct cttctctat 60
 tctactatca ttgatcttca agaagaaaag gactccattg atgaagaagt ttcaaggcgt 120
 acaagctcca catggggcta catcagacag cgtcgactgc gtcacgtcac cagaaaccac 180
 caagtccctg gcagcatcca ggtggaacct cccattcgtc ggcgagaacg agtgtgctag 240
 catccccaag ctcccgctga acgggtcccc ctggctgtgg tcaccactga agaaccgat 300

cctaatgtcg gtgcttggtt ataaataagt gcaacaagtt tttctttcat tgtgnccttc 360
 ttgtgtgect tttccatctg caacaaagct tgttcta 397

<210> 16471
 <211> 232
 <212> DNA
 <213> Glycine max

<400> 16471
 cttgtctata cagtgcactg aatgaacagg cgaatacaag gccatacaga atctgaggaa 60
 ttgataccgc tcacgggtcc ccgacgcgta ctacccgcaa acatggagtg tcactcctga 120
 ggtgccatt gaatgaactt actttcattg attgcggtga gcttactgac cgctctccag 180
 tcgtaactgc tgacaggccc acttgcttat tgagaactgc aaccggaacc cg 232

<210> 16472
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16472
 ttcattgactt gcaatctttc tatataatgg tgatctatac gaaaatgccca caaatctata 60
 gggatgacat tacattntgg atgggtaatg gcggagcata tgggttctga atgtgatggt 120
 ttcaaggtaa gctgataaag cccatgactc acttcaactg taccaatctt cactttgggtg 180
 ttgatatact gcaaaacaca agtattagag gagaagatta actcggagct gtttgcgga 240
 atgagtttgg atatggatat gagattaaag ctaaaagaag gtatgtatag aacatctttc 300
 aatgtaattg aagaggtgag atggacggtt cccgagtggg tggcatgaac ttcgtgtcca 360
 tttggtaact taactagaat gggtttaatt tggatgatg aatcaaaa 408

<210> 16473
 <211> 164
 <212> DNA
 <213> Glycine max

<400> 16473
 gtgaattcta gctccgcgcg ccgggatcct atgagtcgat ctgctgcttt cttcttcttg 60

gtgattccta ggggtgtgtgg ctataacgcg gtcgtaagag acctccgagt gaaataggtt 120
tacgatcaca attgctcacg agctaccatt gtgcaagctt tagc 164

<210> 16474
<211> 130
<212> DNA
<213> Glycine max

<400> 16474

tttgagcaat tcaaattggtt ataattgtttc actttgaggt ccgacctagg cgcataatat 60
atggagacgc tcgaaagtga acaatcgaag cttttgacca attaacctgg tcataactcc 120
taactaagat 130

<210> 16475
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16475

tctttccctg tgctgtgctc tttattntga accccataat atgaaatcca aatgcatctg 60
gcaagcacga cctgctgcac ttgcacatac atcgatcatg tattcatccc cttgcttttc 120
ctttgcaaatt gctgctcaat tgttcataca aaaatatgct cctcacggaa taaagaaaga 180
aaaaataatt gttataataa gttttttcct gtttataatc tttttttttt ttttaagtta 240
taaggagttt tgcctgtgga agtaaaccat catttgacat ttaaagtgtca atttttgcta 300
tatagaaaaa tgtcattttt aaattaatta tgtagaaaat atgaagccgt tttggtaaaa 360
cattcatcga taacattgta attataaaca agttttttctt tacagatatt taccctttt 419

<210> 16476
<211> 161
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16476

ccttacgcat ctgtgcggtt tttcacaccg catatggtgc actctcagta caatctgctc 60
tgatgccgca tagttaagcc agccccgaca cccgccaaca cccgctgacg cgaacccttt 120

gcggncngat tgaatttacc ttgttataat gattgctatc g

161

<210> 16477
<211> 408
<212> DNA
<213> Glycine max

<400> 16477

tgtgtaatcc agagagagta tcttttttatt aattttctgc accaaagcaa gaagatcatt 60
gatttcagca gatgttaaatt tatttgacac aaatcacatt agtcaaagta ataaaacaca 120
aaacacttgg acttatgcac ccaaataaac ttagatagcc atgacctttg gcagttaaaa 180
aaagaattgg tagacacatg atttcaaatg cttcaaagaa ttaatgttaa ctactctttg 240
gagtcataaa agaggaaaat ctgtaaaatt aaaaagtggg ctaggggtgg taattagtta 300
cactcaccaa agaatgttgt ctgttgactg tgcattgctat taataattaa taatatacta 360
aaaaaaaatc aaaatatggc accacccttc tcatgaagag cacaggat 408

<210> 16478
<211> 413
<212> DNA
<213> Glycine max

<400> 16478

tcagtggctt agtgaagatg aaaaggtaaa agtgactcaa caggttgagg tgagtctcac 60
cattgggaga tataatgata ggggtgttgtg tgatatggtc ccaatggaag cgacccatgt 120
gctgttagga agaccgtggc agtatgatac caaggcagtg catgatggct tcaccaacaa 180
aatctctttc aagcaagatg acaacaaaat tgttctcaaa ccgttatctc cgagagaggt 240
ttgtgtggat cagataaaaa tgagagaaaa gaaaaggagt gagacacttg agaggaaaaa 300
gagtgaacaa cttgagaagg aaaagagggg aaagaaaaag agtgaaacac ttgacaggga 360
aaagagagaa aacatataga gtgaaacact cgagagggaa aagagagaaa aca 413

<210> 16479
<211> 373
<212> DNA
<213> Glycine max

<400> 16479

ttaaaccact ttcctattat gcttttcact agagcaatct actttgggtg aatattgatc 60
 tattcctgat aatgatcttt tgggtataata atactcgttca acactcgtga tgcatacaaa 120
 taggttaaat taggaagttt ctttgaaaat cgatattaac acggcctttt acactatcta 180
 taaataatgg cattttttatc gacatcgtga tacctacgat ccgttatggt gcggaactcg 240
 ctttaaaaaa gtgatgcgcg tggcacctat tgtcatcttt gcgtaataaa tcgcatttta 300
 caccacttt ctttggcggg tattgaaaac ctctagaat ctatgcttaa taaatttacg 360
 ccggtcttat aaa 373

<210> 16480
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 16480
 taaaggaagt gaaagaatta gcatgggcag aaatgtcttc gcattgattg gtaaatttga 60
 tccccaaatc cttataaat gtaaagatcc aggtacattc aacatacctt gtattatagg 120
 gaacaaggag ttgacaatg ccatgctaga tttaggagct tctattagtg ttatgccttt 180
 gtctattttt aattctctat ctcttgggtcc tttgtagtca actaatgtgg tgattcattt 240
 agctaataka agtggtgcct atcctgctgg tttcatagag gatgtcttag ttagagttgg 300
 tgaactaatt ttccctggtg attcttatat ttagaatatg gaggaaggat tttctcatgg 360
 atcacttccc atcattcta 379

<210> 16481
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 16481
 tgggtcatat gatttatatg ctccagcttg atgggtgagt gttgaatatc ttgctttact 60
 tgatgtatga ctgatgtaat atcttgctta tctgagaaat tagcagagat atgcctgaga 120
 gtaggctgtc tctctcttcc atcttttctc tatatatttt gtaatcttac caagttatga 180
 ataagcttag tgagagacat tttttcctca ctcaaatttc aagcttcaac tgtttcatta 240
 atgctggggag taatttttgg aaaaatacat aactttagga caaacttaat gttactatat 300

taactaattt ccttgtgaat cagttaattg ggtcttccta aaaggaccat agtaaattt 360
actgggattc atgtataaac cagagtgaat attatgta 398

<210> 16482
<211> 328
<212> DNA
<213> Glycine max

<400> 16482

tcagcctgaa tgctaagctt cagcctgaac gctattcgat agcttatctg tggctaagtg 60
cgagcataaa tcatacacca tgcaagtaag tcccttgatt ctatttctct ttcttatgtc 120
ataactatag ggtagaagac attaaactgta gcttgagatt tctatggttt atatgcttag 180
ttagaataaa attaagatta cggtctatgta agcttgtata ctgtattgat tatggcgcac 240
acatagtatg tatgatatgc cttttacagg cttgaatagt gcgagaaaat gagatatgtt 300
ccctgcattt tctggaaaac gcaatgaa 328

<210> 16483
<211> 410
<212> DNA
<213> Glycine max

<400> 16483

tcttgttcta gatcactact actagacatt cttctattta gctgatgatg cataacctaa 60
tgcttgacat gggtagggat gttgtttctc cataattgag aacctaataca aagaaggttg 120
gggttttgtg aatatattct cgaactacca gttcaagatg tacaaggacc ataactgttt 180
tcttaaattc tgttgttttg gcaacataac atttatgcca ttaattttca ttacgtatgt 240
aaacatattg cttgtgtttc ataaaattac aattacttct tcttgtatag tccctcccc 300
taaataaatg tatattgcat tttaatctat tataacataa atgagtttat taataatgat 360
gaacaagcta taaacgaact tttcaaatat gcatttttcc tttcaactcc 410

<210> 16484
<211> 312
<212> DNA
<213> Glycine max

<400> 16484

caccttgcta ggattcgtcc caactattgg tgataccatc atcaagatca tgctctatac 60
gccaggcatt tccgaacttg aaagatctgg tgacaaacct cctaattatt gcgtccaatt 120
ggatcattat acgagaatgg tccgactttg aagtgcact actacatata ttgcaagtta 180
tgacatatta actctgaagt ggcattggtt taatcttaat gactacatac gacgatagtt 240
aatgactaat tctcatagaa tgcttgctta aattttatga atgattacaa tgagggggctt 300
agaaagaccg tc 312

<210> 16485
<211> 405
<212> DNA
<213> Glycine max
<400> 16485

tgtaatactg aatttgtaag ggaaggggtg tgttatgcta tgtttgattg cgcattcttg 60
tatatagtaa cttttcacca caatttataa gtttccattc aactgtaccc cattccacca 120
tattcttgty gctatgattg tggattagat gatagtattc tgagaaatta ccgtactttt 180
gaaataatac accttaacaa aacaagaaaa tgaaagaata aagcattttg tgccaaaaga 240
aaatacagat tttgcatggg ccacacaatt tatttacgtg attttttaca agaatgacat 300
atggagctgc tgtttcagca tatggcctat tctatctatg cttatggggtt tgcacttcag 360
tcaatacaat aatgaaccat aatacacaga atgccaaatg gattt 405

<210> 16486
<211> 531
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16486

tactectaca caagagtaca catacgacac tttgaagtga taagtaataa tagtaaanca 60
caaaaaaaga gggatttgat gcgtcgttga catgcacact atanaatata caagctcgac 120
angtataatg actctcgcaa atgaatcacc ctttggtgag ccataacacc aaaatacacg 180
agcggtaacc agtgcacaca taccaagtat agacaacaaa tgacataaag tgattatcat 240
tagattaaac atgcactgat tcaaactcaa ggcacacaaa tagcacacac ttagaactaa 300
attatacctg tgctcccaa ccaccaacat gaatagtaca gatgacacat tccacatgcy 360

aaaattcacg ccgcgagcaa aagaatcacc agtaatcgga gatctcaggc ggccaacgaa 420
 gcatcccgat cgcacaacaa gagaggagaa acgaggggaac accctcgcga cggaagacgc 480
 ggcaccagca acagaaacca tcgactacat ccctggaagc tctcgagaga a 531

<210> 16487
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16487

taagcagtta ggtgaagaca catgaataca tttatattac atcattttcta gcatgcttcc 60
 tcttgcaagc aatgttgtca aaattgccag accaccccc tccggaattt ttgcttctct 120
 cattcatgtg ctactctctc agtctctccc tctttgtact cttgaatctc tcttgctccc 180
 tcacttattg atctttctct ctactctctg ctttctgttt tcatgttctg actttggcct 240
 tctctgttct taccgacta cattctggtc tctgccttgg attctgacct cggctcttcgc 300
 agtatctacc ttgtgttctg acttcagtca cctgagactt cattctggac tatctntctg 360
 ctctctgtgg ttcaatactt tcagtattta ttatgacttg tatgtgaact tadc 414

<210> 16488
 <211> 416
 <212> DNA
 <213> Glycine max
 <400> 16488

tatgattcca tttcctggga attcttggat tggatgttta agtccattgg cttccccagc 60
 ccagttctgt acttgatca tggagtgtgt ttcttccact tcctttagtg tggcagtcaa 120
 tggatccatt tatggtcact tcaaaggaca gcggggctct agacaagagg atcctctctc 180
 cccttatctg tttgtgctct gtttgagta cttttccaga gatatgagca gcctcaagga 240
 tgatgccaat tttaaatttc atcccaacta tgcaggtatt cagctatctc atttggtttt 300
 tgcagatgat attatgcttc tatctagatg agatatccat tctgtgttaa ctatgtttgc 360
 caagcttcag cacttctgta gggtttcagg gctttccatc agctctgata aatctg 416

<210> 16489

<211> 410
 <212> DNA
 <213> Glycine max

<400> 16489

tctaaatattc cgaaacatga tattattggg ggccttaggc ataaggtgtc tagttatgca 60
 tatttgtcaa gtgtgtggta aattattttt tttaaccatt atattgggtat aaaattgttt 120
 ctactaaaaa atggtgacaa tttttcattg gaaaccttaa atgcatataa gatgagtatc 180
 tttcttttaa tatgatttat tctatacata agtgcgatca tcatttagat gcctaaaaat 240
 atgtatttct ttgattgcac ttaacaaatc cagatactag tgggtgttat ttacgatgat 300
 cacttgattc tttgctaaac acataagatg ttgatgagtg ttccataata atagggatcg 360
 aaaacaaatt ttcaactttt tgaggaatga aagtcattat ctgttttata 410

<210> 16490
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 16490

taataagagg catgctaagt gggtagagtt tttatagcaa tttccatatg tcatcaaaca 60
 tacaaagggg aaagggaatg tagtggctga tgcactgtct atgagacatg ctttacttgc 120
 tatgcttgaa actaaactgt ttggactcga gtctttgaaa gacatgtatg tgcattgatgt 180
 ggactttgct gatatttttg ctgcatgtga aaagttttct gaatatgggt actatatgca 240
 taatggattc ttgttaaagc aaataaattg agtgtgccta agtgttccat tatagagttg 300
 cttgtgagtg aatcacatga gggggggttg atgggacact ttgggggttca aaagaccctg 360
 gaaattctgc atgagcattt tctttggcct catatgaggc gtgatgtgca taa 413

<210> 16491
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 16491

tgaacgaata taagatacat cttcttcgac cttggtgatt cttgactcca tctcattgaa 60
 gcgcatgtcc acttgtaact ccaaagtatc aaacctttca ctaacaaagg tttgaagacc 120

atcgaacctg tccaaaatct ttgaaagaag agatgaatct tctccatcat gtccttcttc 180
 accaacaatgt cgagcaccct ttttcaccca agagccatca tgctcttttt gataaccaa 240
 ggatgcaatg actgaagcgc ctattagaaa ggatctcttg attggaacat agggtttaga 300
 atcaagaggg atgctaaagt ggttaaggaa gagggtgact atgtgtggat atggcaatgg 360
 agcattcaat cgcaatgcct tatgcatgag atatctaaca agatgtgcct aatca 415

<210> 16492
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 16492

tgaagggaca cccacatttc ctactcccag tatcttttct aacaatcttt tttcctagac 60
 ctatactaac cactcttttc acaaccaatt aacacaaatg aagtctttcc tttattacca 120
 gtgtttgtgt cagatctcat aatgaccacc acatatccat tttcatgagc aacggatcaa 180
 gccactgca aaacatcatt tcgggtacca aacacctaca acgcaatcca tacaatttta 240
 gtcttctaag ggacattgat tttatgaaat taataacaat aatcaacatt attacttgag 300
 aagtattgaa cgcacccgaa caatcaacat gttgatcagc ctttgctagt agtgaaggat 360
 caaataccat gcagctttag ccgaaagaca tataggtgat tattatcttt 410

<210> 16493
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 16493

ttgagccaaa atcctgactc accatagacc ttgactccag ggtgagaatg ccaatcctta 60
 ccctcagaag caaaaaaaga agagaaggaa aacttccaat caaaggaaaa aggagaagga 120
 aaattaccaa tcagagagga agcaaaaaaa ggagagaagg aaaatttcca atcaaaggaa 180
 aggaaattcc caatcaaaga gtgggagaaa gcaaaaagaa aagaaagata attcccaatc 240
 aaagaatggg agaaagaaaa aaaggagaag taaaaaagaa gaaagctcct gttcaaagaa 300
 accataagaa atgtgcagag aggtcttttag accggacaat atctgaacaa tatataattg 360
 tcaccaaatg aacaaaagga aggaaaggaa accacgacct aaaatg 406

<210> 16494
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 16494

tccagctccc agaataaaac caattgcttt acaatttggt ttaaaaaaat catttggtca 60
 tatttaaata aatttggtta taagtattta taagaaaaga atctcatata ctaagattaa 120
 cttgtgcgta agtaaaagtg actttttttt aatagaaaat aaatgatttt ttcataaatg 180
 attgtaaata taaattaatt taaacttttt ttctccctta ttatatagta taagagagtt 240
 tacattactc ttatacttat atataaaaac ttatccaaac aaaatctaaa taactcatgt 300
 atgattttta caciaacctc agtccattac aaaaaaacta gacactctgt gtcgttaagg 360
 aaaaaagttg aacgatcatc taatctattt agtaatgaaa acgggttc 407

<210> 16495
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16495

tgtaaagta attgacatgt gattntgtta tatattgatt cagttgtgca acagaaaact 60
 aaatttcctt ttaattcttc aatttaattt gtagggggcca actcgagcac ttttggctgc 120
 aacaattggg aacatcctag gatattcttc aagtgctagt ggaaagtgga acaagtgaga 180
 ctttgcttat atcttgtgct tatttcatat tttgtacat agctatatat gtaaagtcca 240
 ttctgcatat gttttttcct ttaattctgt tgatttggca catcaacaaa gacacacgag 300
 gagctatgag ctatctctat ttcccataga catgtgcttc taaggtctat aaattacaat 360
 ttccatgaag aacgtttcaa ttttgatcta attaaacttt tctataca 408

<210> 16496
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 16496

tcctcggggc attcctgcga aggcaaacat ttggaaagtt agtttacaag aaatataaca 60

atcattacaa acaagggcca aacaacactt ctcatggcac gagtgtcaac atgcacttta 120
 taaaataatc atattgggggt cgtgctatth tatgacacat acgtatttgc acacataaaa 180
 attttgtgtg aagcatttta cgacacctat tcatgtacat attttttgac aaaccttttc 240
 atgctacatc ctatatatat atacacacat tttttggaag gcttcttttg ttacctactc 300
 acaaatacac acattttgaa aaacactttt acgctaccca tccaacactt tgtaaggcac 360
 ttcatgctat atatattcat attatgcaag gcattttcat gctatatatg ttcatat 417

<210> 16497
 <211> 416
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16497

togaattgct caagtatctc ttctcctttc aacattttca actgccata aattcagcac 60
 ttctgtgtca gtgctaccta tctcaaccat taaaaacatt caatacatat cattaatatt 120
 aaaataaagt ttttaaggaag attgacaaac tatgcatata ataaacaaac accatatgca 180
 agaataaaat ttgaaactag tttttgcata tgagcatatc aatatgcatg aattgcaaatt 240
 atacctgaga gacagagaga aggtgggaaa gagcgtgttg gtattgagca tcattgttat 300
 ggagggattc ttggactttg ttggtgttgt cgtgtacaag cttctgaatt gcgtgggtcga 360
 tgagctcana ccttcgatct tgttccatgc ttgtatattg tttggacttc aataat 416

<210> 16498
 <211> 412
 <212> DNA
 <213> Glycine max
 <400> 16498

tttctcagtc gtctgtaagg atgattgggt gtcataaagc ggcatgcct actgtagact 60
 gtttttctgt catgtttaag ttgtatgtaa cttgtattht cttcacagat ggggcatgca 120
 tgatgaccct taacactgta accgttgaga tcccatatg ctggaaagtc attaattgta 180
 caaaaaagca ttgcacgcat ttcaaaggte tcttgcgaa acgcatcaaa cactactacc 240
 cctcgtccc acaactttct cagatcttca accaacggac ttagataaac atcaatgtca 300

tttcttggct gtcttgagcc cgatatcatc atagacaaca tcatgtatta tgcgttcatg 360
ccaatcaagg aggcaaattg taaattacta tcagaactgg ccatgaactg tg 412

<210> 16499
<211> 412
<212> DNA
<213> Glycine max

<400> 16499

tgctttatatt aggtgggggc atgcaatcag tttaatatgt tgctggggat ggatatccag 60
cctttttact gaaatagata ttatagagaa gcatatcaac aaaaagaact gaaaaaaaaat 120
taaaattggt gattttcatg tattttcctt tttgttggtt atctatttca cctgtccccc 180
ttaaaatata ttttcttaat atatcttact gtttccactt ttgatttttg tgaccctcat 240
ttgaaccact ttgttggtct ttacaggaca aaattgaatt aagggaagga tcttggtttg 300
aaccattaaa agatatggaa ggaaagctag tgggtcttgg tagtaacca ccttatatac 360
caagtaaaga catctctggt ctacaagctg aagttggtag gcatgaacct ag 412

<210> 16500
<211> 392
<212> DNA
<213> Glycine max

<400> 16500

tggtataaata taagccacgt ttgattgttg atgggaatat ggaatcttcc caaacaaaat 60
catgattatt tctggcaatc tatcaaaatt atgtgtagta taaactctca aatttgataa 120
tatatgattg gtttattacg ggaagaaaga tgcgggatcg aatacctttt gtttttgag 180
aaaattccaa tacctttgtg attgacacta aatattgatt tggtgtttta attgtacgca 240
ttgggtccgtt taacgtctaa atctatttcg gctgagatat cgagggtgtg attggttga 300
cattagcacg ggacccaag ttgatgaaag ttgacaatga gtgaaaatca gaaatggtag 360
ttacgtctgc atctttatta agattggcct tt 392

<210> 16501
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16501

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ntgacttgag tcataaaaag attataaata tgtgactcat ggcataaatt ttaagaagag 60
atgaatcgtc tatctttcaa tcttctctca acatcattca atatctttca actctttcta 120
gagaattttc tgattctttt tcttttcac tttctaaaag tttttgttca aaactttctc 180
ttccaagaaa agctctttgt tcaaaaactt gtgctattca tctttttcat tctcttctct 240
ctttgccaaa agaacaaagg actaaccgcc taaattcttt tgtgtctctc ttctccttta 300
caaaagattc aaaggactaa cgcctgaga attcttttgg ttcttacctt ccccttaagc 360
aaaagatttc ataggactaa cgcctaaga tatcttttgt tccccttaca 410
```

<210> 16502
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16502

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ntgccgattt agttttcgcc agtgaaagga tcgaagtggg tctgagaaga ggcaaatttg 60
attatcctgc tttgataaat aggaagccta gggaaaatgg agagaataag aagggggtag 120
aaacccgtgt tgtgactgtc attcctacat ggccaaattt cccactgggt caacaatatc 180
aatactcagc caatatcagt ccttcttatt acccaccacc ctaccagcca agaacaccca 240
atcatccata aaggccgccc ctaaatcagc cacagaacct gcctgctgca catccgaggc 300
cagacaccac ccttaatacg aacaaaaaca ccaacgagag gaggaatttt ccagaaaata 360
agcttgtaga attcacccca cttctagtgt tgtatgctaa cttactccca tatatac 417
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<210> 16503
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16503

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nttctgccag caagattggg agagtcttcg ccaaattcat ggtttaacaa gttatattga 60
gctgtctagt tgggcacacc aatacaaggc tgggacaaag agggaccttc ttggcaagct 120
cagcaaacat agaagggagc atgatacatt aaataccaaa catgccagta aggcttcaca 180
```

atgaatccaa tcaactcaat tagtttgaaa cttgactggt taatttggtg .aagttggtgg 240
atgaattaaa gtaactcaat ttgagttgaa aattcagctc attaaacaaa tgggctgac 300
ttgaatcatg tatagttagt ttggtttgat tgttatatga aaaaaatatt tattctaatt 360
ttgcttatgt tgaatctata ttattaattc ttaaactaca ctcg 404

<210> 16504
<211> 411
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 16504

ttcaacaaga gtcctcacia ataattatca tgaacagaa aactagcaag actacccatc 60
atatctccca aaaccccata cccacgaaaa tcaagaggga aagaagtcca cccaaacctg 120
aaatttcgaa gtccactcg tagacacgca cttcacgacc ccgaaaatgc cctcctttca 180
cgatttgggg cagaaatgat ggccaaaggt tgaagctttg tgtggagctt caatggtgga 240
tgaggaagag agaaagctac gtgagagagg gagagaaaag gcttctgaat ttttttgggg 300
ctgagtgagg agagagaaca tagctttttg gttttaaata aaagggttct ctctttttct 360
attatntat ctaagcaatg ccacatgtct ccatttgagt gggatccaaa g 411

<210> 16505
<211> 410
<212> DNA
<213> Glycine max
<400> 16505

tcttatccaa ggcacatgct tgggtggtgaa gtccttctt ccatggctta ttctctattg 60
gatggtgcct cccgtctcct cttctccttt gccttccgct gcatctccat ggtgaaaaat 120
cgccattgaa ggatctcatt gaagctcaaa gatccagcct ccatagaagc tccacaagca 180
agcttccatc aggtctcaac atatatgtta ttgaattttg tgtctggttt aaaacaagac 240
caattttatg aaaatatcaa tgggtagact gtgagaaaag ttcaaaacat tgaggctggt 300
ctacaaaacc cataattatt gcaagcatct tcaccattgt ggttcaaaat ttcctaataa 360
acactcgtat aaaaattatg gaaaacatat tgcgtagatt cacctttata 410

<210> 16506
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16506

tctagagaaa gctacatgaa gatacctcgg ttatttcgct gcccagcctt cgttaaccgt 60
 tgggtgcttct cgaaattngg tctgcaactt cacaagacac tcgtccatga tctgactgtt 120
 gggatcctttg ataagttgtc tggagtgtgc tagaagcctc ttaatgaagc ttctggagga 180
 agcctcttaa tgaagcttct atagaaagct acatgaagct gcctcgtgaa aaacgcttcc 240
 cagccttcgt taattgttgg atattctcaa aatacggctc gcaacttcac aagacacttg 300
 tccatgatct gaccgttggg atctttgaga agatgtctgg agtgtgctat aagcttccgt 360
 tcccgaaagc atctcgtatt caagcacttc agcctttgct ttagt 405

<210> 16507
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 16507

tcttcttaaa caaggttcca gtgtaatatt gatgtgctat aatgatctat aaatagctaa 60
 tactaattaa taagcatagt ttaataaact atattgtcct tgaaatattt ctttattaaa 120
 ttataagata attattataa aaacaaataa ttttacaaga tatagggact tataattgta 180
 tgatcatata ataacctgta cactccaata tttctattgg ttagtcttaa aaagataaaa 240
 ccaaatttac aatgaattta tatTTTcaaa attaaaatca tgaaataaaa gtttatctga 300
 tgaataaaca actagttgac ttacacaaa tataacgatg gcatattaat aattgtttaa 360
 atctctatta gcacaaactt tttgttttaa 390

<210> 16508
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16508

tattgataaa ctctcttagt tctatatggt ggaggtatTT atatatgcta gataaagact 60
 attaaaaaat gtgtagaacc tttcattttc tcaaagtgtt ataagaaatg ttaattagta 120
 atggagaaca aatttgTTTT tggcatgatg tttggattga aaatgatagt ctaatntatt 180
 ttttctcgg ttatttcaaa tcttttggca taaatgagag atctctctca tgtttttatt 240
 tttctccatt tctcaataga tctttttaag ttaaataaac ttacgatatt ttatcacatt 300
 cttagtgtga gtcaaaggac ttcaaatcct tctaattctt ttatccttaa ttatttttag 360
 aagttttgca cccttcaagg tgcttggtt ttcttggcac gttatcatga at 412

<210> 16509
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16509

nttcttgatt aaaagaatag aagatacaaa atacattccc attatctcag acaaaaacag 60
 aactacattg cttgaagatc cacttccaac tcttgaaaca gcaaaaaaga actgcatgca 120
 accccaaaaa tggaagttag gctttataac aagtcaacaa tacaaactgt atctcttacc 180
 gtatttagtg aagccaaact gtacctggac acatgatata ggactagata taatcatagc 240
 cgaactctta aatacacaaag ataaatctca aatcaaccac aaaagaagaa actttcttga 300
 agttacactc aaaactgaaa gaagacgttt catggtttac accaaataat aaagcttgtc 360
 caagcacaga tctttctaaa ctaacagtaa ctcatgacat atagtaactn gctataat 418

<210> 16510
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16510

ttgcctanaa caaatgggta ccagaagata attttgaaaa aaaatctttt agaagggttt 60
 tgaaatttga attttaaagc tgtaattgat taccattgat gtgtaatcga ttaccaacaa 120
 cgaaactctt gaaattcaat ttgaaaagtc atgatccttc aaaatataat tgtgtaatcg 180
 attaccagaa acctataatc aattactagt gaagaatttc agaataagct ttttgaaaag 240

acacatctct tcaaaccatt ttgaaaaggc acgaagggcc tatatatatg tgtgtctgac 300
 ttcaaaaagt aagagagaga tattctaaga gaacttcatt gccaaattct ctctcaacaa 360
 ctcttgggca aacacttgta aatctattga gacttcatcc aggaatttca aat 413

<210> 16511
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16511

tatgcgcata tttccctacg aacgttcact tgcactagac atcctattaa ctaagaaaaa 60
 tgcaccata tacaatcaag gtagcttcat tacctagatt atttacatgt acttccaagg 120
 tgtatttgtt attacatcac acacgcctcc ttggctaaat ttacatacat gcataactcaa 180
 agcatttcgg ggtaccaaaa attgcacatg cgctcatctt ggtatttcta atacctatac 240
 atatacaaac ttcattgatga atcttgacta cctacgcaat aagggtgctac atttcatgct 300
 tttttttctt tttttttttt tcaagttttt gctacctaaa gccacatgca aattcaagca 360
 tactttcctt tgctgactaa gattgtattc aaattagaaa gtatatattt tttt 414

<210> 16512
 <211> 401
 <212> DNA
 <213> Glycine max
 <400> 16512

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 aaccgtgatt ctacgcttgt tccttgtagg tttcagcttg tctttgcatc ttttcttact 120
 ttagaaccac cattgtatgt ttttgcgctt cctttgaaaa accctagaga aagagacttt 180
 ataaaagtta tctttttatg aaatgggtgt tattttcgtg accttcgctg aacctcgatc 240
 acattggcgt gatcggaatt ttaaaatgat gttccttctg tagaatctga aacgccctta 300
 gccttttcat gtaaagacat gagtagttga ctacagaatat tattgttaac cttatttctg 360
 atatccatag tactttcctt cattttggcg catagagact t 401

<210> 16513
 <211> 184

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16513

ntcataagtg aaatcaggtg tagccatctc cctaagtgtc cttgatcgag gccgtacccg 60
aatcaaataa acattaaaaa tgcagtatct aggaagtgat ccaaggtcgt ctcccaacga 120
gcaatgggta accaaacggt cataacagat agtaataaaa tagtaacgaa ttgggggggg 180
gggg 184

<210> 16514
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16514

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gtataatgac agaactcgac acatttataa gatactttat cataaatcta aattttatatt 120
tgtgaataaaa cacatatctc gaggtggttat aatcatagta tttaaataaa ttttaaactc 180
ttataatttt tgatctaaat tgtaattttg gtctacctt gttacccaaa tacatgattc 240
tgggccatat atatttttga tgtgacatat ggtccacata gatataataa ttggcgattt 300
tgggccactt agaacatgat aactaatgac ttcaaataat aaagttatta tatgattcta 360
taattaatta aac 373

<210> 16515
<211> 390
<212> DNA
<213> Glycine max

<400> 16515

tatgaaatca atggaatcca agatttcatt taacacaagt cgttcaattt tgttcttaga 60
aatgtgacct aagtgcttat gccataatgc tcctgagttt gtattatcaa ttttacgctt 120
agtaccacgt aattccgcat taaaggattc accataagaa gctacaatat caagtaaata 180
tatattatca taagccaaga gtgaaccagt tccaacaata tctgaattaa aagacaacct 240
aatcacgttg ttttcaaag aacacaaata acccaatttg tccaataag aaattgaaat 300

caaattcctt ctaaagacg gtacaacaaa agtatctttc atatccaaat gagaatcagt 360
acataataat aatctaagat gccctataac 390

<210> 16516
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16516

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tgatagtcac cgcttttagga gtgctgtaca ccagcagcgc ttctaggcca tcaagggatg 120
gtcgtttctc cgggagcgac gcgtccagct cagggacgac gagtatgctg atttccagga 180
ggaaataggg cgccggcggt gggcatcact ggttactccc atggccaagt ttgatccaga 240
aatagttctt gaggtttatg ccaatgcttg gccaacagag gagggcgctgc gtgacatgag 300
atcctgngta aggggtcagt ggatcccggt tgatgccgac gctatcggcc aatccttagg 360
atatccattg gtgttggaag agggccagga atgttagtat ggcc 404

<210> 16517
<211> 403
<212> DNA
<213> Glycine max

<400> 16517

tgaatctgaa gctgaacaca ggcagctgac ttgcttagaa aatatgaaaa ggaagaagct 60
gcagcaagat ctttggtcag cagcccaagc tcacgagtct ttattgagga agaaggcgag 120
atcgcgttgg attaatgagg ggggttagata tctcgatatt ttcacctggt gattaactcc 180
catcgaagtt tatagctttt tccaacagag atttcaagaa actatgagca gcagaccagt 240
tttgaatgac acctcttttc aagaaacatg ttctttgggg aggctactat gaaaaatgtc 300
aagactatca aattgatttt gagagctttt gaattgtcat caggacttaa aatatattat 360
gggaagagcg gctttgtggt gttgggcca tctgaacaat gga 403

<210> 16518
<211> 415
<212> DNA

<213> Glycine max

<400> 16518

cttcactcgg agatctgatt caggcgcata atatatcgag acgcttgaaa atgaacaacg 60
aaagctctcg agaaattcca atgctcatta tctttaactc ggaggtctga tttaggcgca 120
taatatatca agacgctcga aattgaacaa cggaagctct ctagaaattg aaatgggtcat 180
aacttttcac tccgagggtc gattcaagtg catgatatat ccagacgctc gaaattgaac 240
aatagaagct ctcgagaaat tcaaattggc ataacttta actcggaggt ccgatttatg 300
cgcataatat atcgagacgc tcgaaattta acaatggaag ctcttggtgca attccaatgg 360
acataacttt tatctcggag gtccgattcg agtgaataat atatcgagac gatcg 415

<210> 16519

<211> 409

<212> DNA

<213> Glycine max

<400> 16519

caaatgcgga aagtttacgc ctccatttcc cggtatgctt acactcaaag tcataaggga 60
gccatggagt ggaccttccc tcttagtaat attcttgcag ctctaagatt tgatttggct 120
tgtgtgcctt agtttctttg cttctgttca ttttgttttt cttcatttca tatgtacaaa 180
aaaaaaattg gtcaaactaa tttataaact aattaaataa acttataaac tttctcatta 240
cttataagct agttagttaa atgggtttac aagctttccg agtgtgtctt accaaactca 300
ccaatacata atcattttta aaatatacag ataggaactg atatataata ctttagattt 360
taaaattaaa actttttcga taacttgtgc attacaaatt atataatat 409

<210> 16520

<211> 415

<212> DNA

<213> Glycine max

<400> 16520

tcaagcaata tcaaacattt gaaacaactt cctcactgca tatgagcttc ctaagtaatg 60
aaataatttt cctaataatt acaagcacia ttccaatggg aagatacaga tcacaattaa 120
tttaaattgat aatgaatca gtaagaaatc atttcctcgc tgtttgtgaa agtgagtatg 180

aacacatcat ataaatatta ttgaaaacat aaagatctaa tacagacctc catggccgtc 240
 ataaacacca aagtatgacg tagactcgtc caaatatgga tgagctgcat gctggcatgt 300
 aatgtaaaag aattaaaact tgtatacacc atcaaacaga ttgtaatata ataatgggct 360
 actgaagatt taagtacaaa gcatcaaggt acaccaagca ttgacatcaa atata 415

<210> 16521
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16521

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 acaacattgc gtttgcccat cggtttgagg gtgacaagag gatgaaaata acaatttagt 120
 gcccaacttg ctccacaaag tcctccaaaa atggcttatg aacttagagt ccctatcact 180
 aacaatgcta cttggcaaac catggagtct cacaatctcc ttgaaaaaca aatcaaccac 240
 atgggaagca tcaatcaact gtcttacatg gaataaaatg agccatttta gaaaacctat 300
 caacaaccac agaaatggaa attctaccat tgcttgtttt tgacagcccc aaaacaaaat 360
 tcatggataa atcactccaa ggaatactac ggaattgaca atggagtata caatt 415

<210> 16522
 <211> 237
 <212> DNA
 <213> Glycine max

<400> 16522

cggcaccttc gcctagtttg tgtgctttgt gtacctgtat tatatccttt gttctggaag 60
 acggtgtatg atcgattcgt gcttggcatc gcagtgacta tctctagatg atagtcgtct 120
 ttgcgtaaag ggcacgccgg ccgaaatctg tgttctatct gtgctgtact cttatatggt 180
 aagagaggca tgaaaacagg ggcaactcgt aatgcgctaa tatcatccgg tgatgat 237

<210> 16523
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 16523

tgtctcagcg tttatgcgag acggagacca tctatgctag ctatcatcgc caagtaccaa 60
gaagagttag gtctagccac ggcctacgag catagaatcg cggacgagta tgctcaagta 120
tacgcggaaa aggaggctag aggaaggggtg atcgactctt tacaccaaga ggcaaccatg 180
tggatggatc ggtttgcctt taccttgaat gggagtcaag aacttccccg cttgttagcc 240
aaggccaaag cgatggcaga cacctactcc gccccgaag agattcatgg gcttctcggc 300
tattgtcagc atatgataga cttaatggcc cacataatta gaaatcgta ggaaacttgt 360
atgggtctctc ataccttgac tagatcgcac ttttntttg aataaaatga g 411

<210> 16524

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16524

ntgagccaaa atcctgactc accataaacc ttgacccatg gtgagaatgt caatccttac 60
cctcgggaagc aaaaaagaat agaagggaaa tttccaatca aaaaagaata gaaggaaaat 120
ttccaatgaa agcaaaaaaa gaaaagaagg aaaattcccc aatcaaagag tgggagaaag 180
caaaaagaaa agaaaggaaa ttccaatca aagaatggga gaaagtaaaa aaggaagaag 240
aagaaggaaa gaaagctcct gatcagggat cgaaggaaaa acagaagaaa tgtgcagaga 300
ggtctttaga cgggacaata tctgaacaat acagaattgt caccaaata acaaaaagaa 360
ggaaaggaaa ccacgaccta naatgggtctt ctccctttg 399

<210> 16525

<211> 350

<212> DNA

<213> Glycine max

<400> 16525

gagcaagact acttcagact gatcaaagtt atttatttta tgaaaaccta tcataacaac 60
tagaatgtat tgcttgccat caaccatgac attattacaa agactatcct atctagacca 120
atatgcttac taaagaagca taactgataa aaagctgtat gatgaacctc atccccatag 180
tgatgtaatc tccattggag cttgtatgcc taggatcctc ttcattaatg gattcctttg 240

cttcttggaa gatgaatggc agtggaatgg ataaggaaga gagagaggag atgccacttc 300
 agggagaata tgagactaga agaagctcac caccatagga tgccatggat 350

<210> 16526
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 16526
 tcttatccaa ggcacattct tgggtggtgaa acttcttctt ccatggctta ttcccttggtg 60
 gatggtgcct cccctctact cttctccttt gccttcgct gcctctccat ggtggaaaat 120
 caccattgaa gctcaaagat ccagcctcca tagaagcttc acatgcaagc ttccatcaga 180
 gatagtgcaa ctcgatgtca aaacaacctt tctccatgga agattggagg aagacattat 240
 gatgcaacaa cctgaagggt ttgaaatggt aggggaagaaa aattatgtat gtacgttgaa 300
 aagggtttata tatgggttga aacaatctcc aacgaagtgg taccagagag tcgatgagtt 360
 catattactc atgggtcaac aaaagtgcc atgatcatgt atca 404

<210> 16527
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 16527
 tgccaattaa attgattcgg atccatatga cttgttacia atgaaactag aatttaaaat 60
 tggaattgga gaatatgaca atgataatgg aaataagaat gaaaatgtga aattgtatgc 120
 aaattgcttc ctataatgac caatttataa gacccaatag ggatttggtta tgttattggt 180
 ctcgattgtg acatatctat tgttggtgtg gttcattgat ttcttcttct tctatccgat 240
 ttgtttcttc ccacaagaat tagttaagga gagagacaat aaaaaatgat ttttttaa 300
 gcgcatttct tcaagggttt tctacaagaa ctcaatctcc aacgtgaaga ccttgagagt 360
 gtcttttagta gctagatctt agaagaacat atcttcaact taaa 404

<210> 16528
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 16528

tctcccccaa ttttctataa atagggggag aagtgtagtg aaaaagggtt cagcccctta 60
ggcacttctc tctctttcga atttgcttag aaaaattggt tccgtgaaga aaatccaagc 120
cgaggcactt ccgtaacgtt tccgtgagtg atttcgcgaa gggttttcgac tgttcttcat 180
ttgttcttca tcgttcttcg gtcttcaacg ggtaagtacc tcgaaccaag cttttcgatt 240
cattctatgt acccgtgggt gtccacattg agtttcgtgt attttccttc tcgttttcat 300
ttactttccg tacccttttt gacgtgctta agccatttta tttaagtcac ttctcgctaa 360
acctacaata aaatatattt ccaccgattg ttagaattgt attatccg 408

<210> 16529

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16529

tcatgatgaa tcaagattga ttcaaagagt ttcgatgata acaaagatga tgacaaaaag 60
ctcaaaagtc aagaacactt catgttaaca aagatgatga cttcaagaat caaagaatga 120
attcaagatt gaatcaaaaa cacttcaagg atcaaaagga aatttgattt caagaatcaa 180
gaatcaagtt tcaagattca agttccaaga atcaagatca agattcaaga ctcaagattc 240
aagaatcaag agaagattca atcaagataa gtatttaaaaa gttttttcaa aatctgtgta 300
gcacattaat tnttctcaaa aacctttttac caaagaagtt ttactctctg gtaatcgatt 360
accagattgt tgtaatcgat taccagtagc ataatgtttt tcanaaagct tt 412

<210> 16530

<211> 418

<212> DNA

<213> Glycine max

<400> 16530

tctaagccta ttacagtagt gtacaaccga atactttctt caaataaaaag aaagaaggat 60
aaagggaagg tagtgggttg tccttttaaaa attacctttt agtggagtat ttataatgta 120
tatgatctta catgggtatgt atttgctcta gtgagtgtag acagaacata gagttagttg 180

agcaattaag ttcaccacct ccaaactcca gagttttgta ttttccatct cattttccac 240
 aaaatggttg ggaacagttt aaagcatgct tgtggaaaca acatttggtc tattggagaa 300
 ttccttcata caacttgatg cgcatacatat ttgtgcgtgt ctcatctctt ttgtttggga 360
 tattgttttg gaagcaagga tagacaatgt tagtgatcat aattttattc tacttatg 418

<210> 16531
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 16531
 tgcatttgga cttgcgaaag cccactcca tcattatgat tattacctgc catctcaaac 60
 aaacaaatca aacgtaacaa gacaattata gtcgttgttt gaatacctca cccactcaag 120
 tgtagcacac aattatggat tttctctaata gacaacactc ttgcctttta ccactctaata 180
 tccccttgag ttcttaggaa attcaagaga ttatggccac aacaaagaac aattcaccaa 240
 tatgtgtaag gtaaggctat agagacaagg aaaagggttaa ccaagaaaaa ggctaacaat 300
 gtttttaggc acaatttaag gaaataaaat tcagaattta ggaattcaag taacaatcct 360
 tcatacaacc aatatatttc cttaaagata tatttttttt taagttcttc aagca 415

<210> 16532
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16532

nttaataatg gtgatgtctt atttatttgt atttatgtgg atgaccttat ctttatcggc 60
 aataacccaa atttgtttaa agacttcaag gagtccatgt ctctgaatt tgagatgaca 120
 gatatgggac tcatgtcata ttacttagga agggaagtga agcaaagga aaatggatc 180
 ttgtctcac aagaaagcta cacaaaagaa gtgttgaaga aatttaatat gcttgattgc 240
 aatcccgtga acacacctat ggaagggtggc ttgaagttat caaagtttga tgaaggagag 300
 aaggtagacc ccacggtctt caagagtctt gtggggagtt tgaggatatc aaccaataca 360
 aggcccgata ttctatatgc ggtgggagtt gtgtgtcgct ttatggaggc tcctac 416

<210> 16533
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 16533

tcaggctggt caattgcttc agattgttgc acagattggc aaaggtctgt gtggtgatcg 60
 gcagaggagc atataccaca gagtctggcg acaagtgtag atttttgatt catggccagt 120
 tggattacca ggttaaccaa ggcattctagt ttaccttcaa gcttcttagt ctcgactgat 180
 gaagatgaat ttgtggctac ttcattgcact cctctaata caatagcatt acttctagca 240
 ctaaattgct gggagtttga agccattctt tcaattaaat ttcttgcctt aacaggggtc 300
 atgtctccaa gggctccacc actggcaaca tctatcatac ttctctccat gttactgagt 360
 ccttcataaa aatattggag gagaaactgc tctgaaatct ggtggtga 408

<210> 16534
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 16534

tgcctttcgt taatcttgc ccttctacgt tgctctgttt ctgaatgctt tgaacgctgt 60
 gggttcacc ctttccccgt gctgggttca tccaccttca ctgccaagtc acaacgtaat 120
 aataaataat tgtgttaaaa attgcaaatt gaattgcgga atgcaattga agaggtaaaa 180
 agataagaac tttgagacac ccatcaatga atcaatcgat aaaccctggt ggggtgttgc 240
 caaccaaaacc aaacacagag agagagagag agaaaccttt gaaagaggtg ttattagcag 300
 ttaagagttc ttcttcatca tcgtcgtcga attcatcttg atgccctttc gcagacctag 360
 ccatttggtt ctccagatga agagaagtgt aatgtaatct gtacaaccta cctag 415

<210> 16535
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 16535

tatggcccat aggcaaagct atgacaggtt gataatataa gtgaagtgt atgttaacct 60
 agtttatgtt ataggaaaaa tatattttga cactcaaattg ttataaaca cttattgaga 120

aaggagaaaa aaagagaaaa atataagtat gatagaaaat ataatgtgat aggcaaatag 180
 agataaaaaa aaatgaaaat tgctagtggg tgtttaaaat attacccttc gtattttaat 240
 tgtaaagaat gaaaatgtaa gttaatgaaa aaaatgataa ttaatgcaat aaaagaacaa 300
 gtggatattt ttcgtactgt tggaagttt ccgatccccct ggctcaattt ttgggatgca 360
 gttgatacat atatctgttg agcagctgat gtaataccat ttggtggaca ta 412

<210> 16536
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16536

ttntatgcc a ctcactttc tctacccctc tgtattttcc acttctactg accacacacc 60
 ataaaggaat ggtaacaata tactcttttc caattctcta ctctacaagt gttatgttgc 120
 aattaaataa tgtatatgaa ttgtgataga gggaagcttg ctgattattc ttcaaattta 180
 aaactgagac aatttaagtc ataatgagtt ataagttatt gtcctttcac aggaggtgct 240
 attctatgag gatggagagc ccataattga tggggaatct ggagatttaa ggggttagtaa 300
 cttgtcactt tcagtatcca tgctattatg tatgcagtat gcctgacatt tcatacgggt 360
 gaacagtttc gtatccgaac tgcacctcat gacgtcttca gaaga 405

<210> 16537
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 16537

tgttcgaagg ggttgataaa tgtgtctgaa tatattaaga tacaagattt gtgtttatta 60
 cgtaatttaa tattgatttc atcaaattac agagcctggt tccaaagaac atgttaaatt 120
 aatccttggg ttcattaaat taatcatttg attcctataa gtagtactta agatttagtc 180
 catatacatc cttattagta cacatcggt a cctggtatta ctatgttcct taagttttat 240
 ctttatatcg atgtataagg accaaatctt aactatgctt ttcatacaat gactaattct 300
 taaatgaata tcaccgataa ggactaacta atttaaactt ctgatttgta aactccttcc 360

tattgttatg ggacatttct ttcaatgtct tctcaaaatt cttttgcatc

410

<210> 16538
<211> 404
<212> DNA
<213> Glycine max

<400> 16538

tccttaagaa actttcttga gaagcttctt tgagaagatt cctagagaag ctagagctta 60
gctatacaca cctctctaata aactaagctc acctccttta gatgagaagc taaagcttag 120
ctacatgtta gtcgatgaat acgactaact cttgtgtata aaacctatgt aaattggatc 180
aaactcctcc aatttatgga tattttgtat ggatgaaatt actttttgtt aaagatagga 240
aataaatact tagtactccc attttgtgtg ttttaataacc atttcctctc agttctaggt 300
taattaggca agtttgtgaa gcgctgatta tcatccgctc gctaaggcaa tcttctggct 360
tagcgagcca tccactgagc acaatactcc tcgactgagc gcga 404

<210> 16539
<211> 349
<212> DNA
<213> Glycine max

<400> 16539

atggctgcgc acgagctcat atttggcgag ttatatattt tatgacgcat tgaaatggat 60
tacttgtatt ggtaatctac tacaggccca ataagccttc tggtaatcga ttactggatg 120
tcgtaatcga ttacaggctg cctgttcatg tgtaatctat tacactggat ggtaatctat 180
taccagagcc taccctaggc tagtttgtaa gagaatatct atttttatgc ttaaatacat 240
actatatgtc taattctcct actaatacac ttaattcaac cattcaatta ctatgtgcac 300
aatagcccgat aattgacatc gttaaaacca taattactac atgatcatc 349

<210> 16540
<211> 408
<212> DNA
<213> Glycine max

<400> 16540

tgtgcaaatt aaatcactcc tacattttat ctctatcatg cattgtatgt tggctctgctc 60

ctttgtcacg ggaagccgga aggtccatat caccttctta attgtacaca tggggcactg 120
 cgcccccaaa tgcacaagta agaagagata attttccggg ctctcgtgtc cgtaaaatgc 180
 attcatatca tgcaccgcat aaacatctct tcagcatcat aatgaacata tcgttctctg 240
 atttgtccgt tatcacattc ccattttgca tgagtcattg catcatcata tgcgttcaac 300
 atactttttg tttgcttata catgatcctt gtattttcct ctacaaaaca aaaacaaaaa 360
 atagggaag tacgaaaatt cacgctgcat tcttagttgc atatattc 408

<210> 16541
 <211> 279
 <212> DNA
 <213> Glycine max

<400> 16541
 ttgacttgag ccatcaagag atatatttat gttttcatgg catgaattta actgatgatt 60
 tctctctcaa tcttttttca tcattctctca acatctttga gtccttttta cagaatttta 120
 tgattcatta ttcttcatct tacttaaagt ttttgaacaa tacttttata tgtgaagaaa 180
 agctcttaga tcaaaaactt gtgttatgca tcttttacat tctcttctcc ctttgccata 240
 agaacatagt gactaaccgc ctaggttcta ttgcgtttc 279

<210> 16542
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 16542
 tgtatcatct actaactaca aattgatttt ttcataaat atttgattc tacaggatac 60
 caataccaag gtgaggattg gtacaattga agtgaatcgc ggcctctatc aattcacccc 120
 cgaagacca aaaacacata ccatatgttc tatcattaca cacccaaagt gtctaattct 180
 ccctgtaaatt ctatggcatt ttcgtatggg tcaccccttt ccgaaagat tacaagccat 240
 gcaaacatac tatcctttct taaataataa caagagtttc atttgtaata cttgccatta 300
 tgccaaacat aagaaattac cttttcattc tagcacatct catgcattaa atcaattcga 360
 gcttttacat gttgatattt gggggtcgtg ctccaaaaca tccatgcatg ggcaccg 417

<210> 16543

<211> 413
 <212> DNA
 <213> Glycine max

<400> 16543

tcttatccaa ggcaattatt ggtggtgaag ctcttcttc cttggcttat tccctagtgg 60
 atggtgcctc cctctcctc ttctccttg cctccgttg catctccatg gtgaaaaatc 120
 accattgaag gacctcattg aagctcaaag atccagcctc catagaagcc ccacaagcaa 180
 gcttccatca gaagccattc cataagagaa ctgaaccgga tttgcaagaa agttgttgat 240
 gtctggaaga aattggattt aggcaaccag ataggactaa gacatgtaag gtggtgtatt 300
 gattattaag aaaaaattga gacaattggt tcagtttgct gaacctttca tgttatgatc 360
 aatagaatta gacttgcata atatgtattt gagaattttt gtatctgatt etc 413

<210> 16544
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 16544

tctctctgag ttctcgttg aaccaatctc agacttatca agtttgaacc cttatggcgt 60
 ctacccttaa cttatcttcc atctctggaa gtggcgatcat ccaaattcta tgacctgtac 120
 caagcgatcc actcctataa ggatcacgtc attaggtgta tcaaaaagag atatcattga 180
 ctcaatcatg tgggtgaagt ctgggtctttt ggtggattct ccttttcaag gctttaagt 240
 tgatccctcg ctttgacgta aagaacacta ggttgagca ttcaaagtga tccccttcat 300
 ttgatttgat tatttgacca ttgtagtga ctaactaatg gacaaatgag gaaaacatgt 360
 catgtattat attttagtag ttagaaataa ttaattgaga a 401

<210> 16545
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16545

tagctttggg aagaatatgt tcttgataat gagcttgata aatctttgca cttgtccttg 60
 atatcaacaa aaaagatttc aagagagaat caaatatgga actcaacact ttaaggaaaa 120

atcgccaact aagattacat ttttcacgga tactattggg gatttttata atgcttagtc 180
 aaaatataac aataaaatca caataggaag aaaagataag aatttaacag tttcaggctt 240
 gtaacatcta tcatcttcac cttattactc tttgctttgg ttcacattat ggacttatat 300
 caatatatcc atcaaaacac caccaaatta gtttcacaaa tgaaacatga tgagacanaa 360
 attaatcttc tttatgcttc ggacatgatg c 391

<210> 16546
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 16546

tctcaaggaa gctacctagt ctataaatag aagcatgtgt aacacttggt gtaactttga 60
 tgaatgagag tcttgtgaga catacttcaa agttccactt ctctccctct tttattcctt 120
 caatttcattg ctccccctc tctctttctc tccctctttc ttttctgca ttgaagcatc 180
 ctttcaagct tcttatccaa ggctcatctt ggtgggtgaag ctctttcttc catggcttat 240
 tccctagtgg atagcgctc ctctcacctc ttctcatttg tcttccgctg catctccatg 300
 gtggaaaatc accattaaag gacctcattg aagctcaaag atccagcctc catagaagcc 360
 ccacaagcaa gcttccatca gcctcagatt ttgacttggt tttggga 407

<210> 16547
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 16547

tgtatgtttg ggttgtgata tcttattact tgcacttgat caatagtatg atattggccg 60
 acaagttctc gactcacttc catgttgctt acctctagta ccttgacaac ttaggtgctt 120
 gccacaagta tgcattggga gtagctgcac tgacatacct ctacgaccat ctctcatatg 180
 cgagtaagta taacagcaag tcatgtggag gttatgtgac attactcatg gtaagtaaac 240
 atttttagtc ttgtaattat tttttattac tataattaat atttgtattg gtatttttta 300
 tagtcttggg tgctggcgca tctgccaatg tttgctactt atagtgagag gattatgttt 360
 tggaggacct agaagccacc agatataacc cattgagagg taccgagc 408

<210> 16548
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16548

tgtccgcaaa aaaatcacta aaaaggattt taagggttcga tacctcaatt tttctcacca 60
 agtaaaaatg gatcctttta aggtccaatg ccttaaaagg accaccttcc aagtaaaaag 120
 aatcgcttga ttcgcccctt agaaagaact acgtaggtct gatttcctct tcgatggagg 180
 gtacgtagga gcaagagccc cgcttttgtc gacctcaaaa attaaaaaag aaagaagagt 240
 ttagatacac aatttcacac aattctaatt taaggctatt gtcctttggg acaaacgtga 300
 gaggtgctaa taccttcctc aaacgtaaatt acaactcccg aatctagaat attcttcatg 360
 aacgatttct ttcgngtttt ctgacgttnt acacaaataa acgttagtgg cgac 414

<210> 16549
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 16549

tctcttagta tcttttgtat tttgggtact gtaatttgat atttatacac tttgaaaaat 60
 ccttgaaaat gagacgttgt aaaagttttc attttataaa attgatttta ttttcatgac 120
 ctttgctgaa ccccggtcac attggcatga tcaaaatttc aaaatgacgc ctcgtttag 180
 tagaacccaa aacacccttt agcccttttt tattttgata ggggcatttg actccaaatg 240
 ttattattaa ccttggtttt gaaatctata ctaatttgcc ttcaatttgg tatatagaac 300
 tatgtgtttg gatcaaagaa cgtgaacgag agaggtctct gagcgacgca tagaggagtt 360
 gacggagagc tcacgataag tgaaggaggt ttattttggt ttacc 405

<210> 16550
 <211> 183
 <212> DNA
 <213> Glycine max

<400> 16550

acatcatctt cgtaaactg aagtgtactt gactttggag ctgtccgtga tcatcggtgg 60
aatcatcaaa actcctagaa tcaatcgga ttcatacga tgctggctac tccaaagaca 120
aactaacaat gatatgccc agtcagggg acataacaat tggctgccc ttaacctaaa 180
cac 183

<210> 16551
<211> 406
<212> DNA
<213> Glycine max

<400> 16551

tcaagttggt cattgactct agattgctgc aaagtataaa aaagatctgt atggatgatct 60
gcagatttct gattcatgac aagctgagtt actagggttaa ccaaggcatc aagtttttcc 120
tcaagctttt tattttcagt agatgaagat gaattcgtgg ccacctcatg gactcctcta 180
aggacaatag catcatttct tgcaactgaat tattgggatt ggaagccatc ttctcaatca 240
aattcctagc ctgggcagga gtcataatcac caagggtccc accactggca acatcaatca 300
tactcatttc catgttgcta agtccctcat agaaatattg cagaaggagt tgctcagaaa 360
tttggtggtg aggacagatt gcacacaatt tcttgaatct ttccca 406

<210> 16552
<211> 365
<212> DNA
<213> Glycine max

<400> 16552

tctacttcac cagattccta gaaaatgtga tcattatggc ctatggggca tctttggaga 60
gtagggacta gttcgagaga tattcatccc tacgcgtagg aacaaagaaa gaagaaggct 120
cggcttccag agatttaacg gggatgatgc cgtaaacagg ctatagcggc aacttgacaa 180
ccttgatgat ggaggcctga tgctacacat caacgtacca atgtacgaac gtcttaacga 240
gtcacgacca caattaagac tagggctcga aactaggaga ggcgggtgaa cacaggtaaa 300
cattgcactc atgtcagaat cacatggtat cttcgatggt ctataataat gccctactca 360
caacg 365

<210> 16553

<211> 408
 <212> DNA
 <213> Glycine max

<400> 16553

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 ggatccagaa atttgttttag tggggggcaaa aaagtagtcc ataatatattt catacaaaag 120
 tttttacaaa atacataatt tcatgacaaa aaaatctaaa ttatccaagt ttcttttaaat 180
 tacagctacc ttctacacat atcaatgtat tttctctttt atctcttata acttggttacc 240
 ttcattttaa aaaaaaaaca attgtcttgt ctcttggtgg ggcaacacta ttttttttgt 300
 gggggcattt tttttattaa agatgtttta agtaaaaaaa ttgcttatgg tggcaattgc 360
 ccccataatg ctgtccgccca ctgttgtagc ccagaaaagg ttcgtgct 408

<210> 16554
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 16554

tcatgaagat gaatcatgta tgaatcaagt cgctttgatg atgacacaca gcacaaaaga 60
 atgatttgaa gattgattca gcacgttcaa gatcatgatt aatttccaga ttcattagaa 120
 gaaatcagca atattcaaga ttcaggagac gttgactcca agattcgca aaagacatca 180
 agaggaatca agattcagga gacgatgact tctggatgct agagacgaga tcaagaagca 240
 cgcagtcacg acatcacatg ggaagtatcg aaaaggactt ctgacaagcc aaacatagca 300
 cagttttgtt ctacaaaaga gtgctcgtag attgttctaa gtgaccagat tatgcactct 360
 ctggtcatc 369

<210> 16555
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 16555

tctgggaggg acatatataa tgcatacaca tcatatcata ttcatttctt actagtttag 60
 taatttctaa ccgagagtat ttatttctcc agtaccatta ttcacgttca atatcgtatc 120

aatattattg aaaattctag ggatatgatg agttgacatc aatgtcaatt ttagatctgg 180
 ggtatccagg tcagcataca ccatcatcat gcatgcactt gaactttctt taatttccct 240
 ttgcaacatg gcaatcctta acattttgta ctacttattt ttcccccttg caatgtggga 300
 attcatgaca tttttttgct ttgggtgaaa aatgattcgt tttctttacc taaccaagag 360
 acatggtacg tcaagggctt cttgcctaga aaacgatgga tacacatg 408

<210> 16556
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 16556

tatctggggc ctcacaaaca gggttttcat agagatatat tgcatgtcca agtaggcaca 60
 gtagcaggag gaaggccagc agtagctagc cgcagataca ccgccaccac ctctacggca 120
 gccgccatcc ctggagtcta tctctgctca cctgcgaagg atagagcttc agatgcacac 180
 gtatgtgcag catgtgactg gccaataggt ggctaatacat aggggtcagg tgtagctaaa 240
 tgagaccttc tatcagtaca cctgcacta gcaaagctag gaccctggtc ctttttcgtg 300
 gcttaccccc gagcagttcg gggccacaat tgcgtggccg ggagatgagc ccaattttca 360
 gacaagggca ggactcgcaa gccccagag acaaggatgg agctcaggag gatg 414

<210> 16557
 <211> 272
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16557

tctagccaaa tggacttacc ttgaattaat tcctttgata gcccttttga gccttgtttc 60
 cctttccttg ttttgaagct cactacaagc ctttaagtga aaaccatgat attaccatat 120
 ccttaaggaa ttttggagct ttggaattgt tttgggaata agtggggggg gtttttgttt 180
 nattgnacaa cttgttttgt tggntatgct tnatgatgta ttttgggcca tactagatgt 240
 acatgtgatc ttggttaaat gttggacatg ct 272

<210> 16558
 <211> 405

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16558

tgcgcatgct ctcatcagtg gccagcctgt agaaccaggt ccacaacccc ctgacctctt 60
tgataagcaa ataagcttat taacaccagt tgtgatggat gcaacccta ttggtgtaaa 120
gtttggggat tgtagctctg atgttcccaa gaactcgacc tttaagagag ctgacatggt 180
gtctgttact ttctgggtctg cgtgccctcg taatgacctt atgactgaag gtacattttc 240
cctgggtggaa tttctccaag gaaaggatat gtgggttcct gcttatgatg atgatgattt 300
ctgcctgcgc ttcaagtggg caagaccttt canactcagt tctcatagta aagctaccat 360
agaatggaga atcccaaagg atgttactcc tgggtgtatac agaat 405

<210> 16559
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16559

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caaccggggc atagtcggtc agtgagaacc tgtgatgtac ctaaacaggc gagctcctgg 120
cagtcaacag ataaaaggaa caaagaccac aaagcaagga ggcttggtggg ggctggccag 180
ctgtgaaact tgattgatat gtgagatatg gtctctggta atcgattacc aagggtgggt 240
aatcgattac aaggcttaaa attgaagaca ggaggctaag atgggtctctg gtaatcgatt 300
accacggngt gtaatcgatt accaggcttg aaaacgaggt cagaaagcca tgagggcttc 360
tggtaatcga ttacaaaggg ggctgtaatt attacc 396

<210> 16560
<211> 406
<212> DNA
<213> Glycine max

<400> 16560

gtagaccac ttttgtgagt tcgtgaatgt cttatatgtg ttctatatta atggatgact 60
cactgcatat gtggataatg gcgattccca tgggtgggat aatctcagta caaggggtgt 120

ttgaagaggc catttcatag agtcgagagc tagggatatga attctcagag aagaagttga 180
 agtgtctcat agagtgtgct atgccaagag ttttgatgca acatgatctt attgtgtgct 240
 ctccggcttt ttcaataact atcattacgc ccactttccc aaaatgagtt agcacagagt 300
 atatatatat atatatccag ataacaacga attatcgagt gttgtaaagt ccagtggacc 360
 atatgtcttt cgatgccaca gcggatgaca tatagatata caatct 406

<210> 16561
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 16561

ggttcattgt aaatctcaac actaagttgt ttatgtcttc acaaagccct taatgcttct 60
 aactttctct tactttatcc acaagttggg actcattaac attgactctc caacttgagg 120
 ggggattaaa gttgtatgaa gaaatggagt taattacttc agttagaggg tagttagact 180
 agtcggtaat tagttagaat gaagttagtt actaagattg ttaagctgga tataaaatag 240
 tgtgtatgca accttatatt caataatcat caataatatt ttacagattt ccttggtgca 300
 caaagctctc tatcaataaa ttcccccttc ccaagtccac attgaagaat ctatcgcaac 360
 tttagaatgt ctgaaaacat attatgtaca taaaaa 397

<210> 16562
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 16562

tccacaacat ccaagtaaaa caacattcaa acagctcaag ctatcacagc caagcaaaag 60
 cagagcaaag tcagaaaact ctgctcaaac accaaccaaa atcacagctt ttctcactta 120
 aagaccacag taacaattcc ttogatccaa ttcggttaacc gttggatcga ctccaaaatt 180
 ttactggaag tctatagtgc ataagcctac attgtgaccg ttgggatcta ctagcaaaca 240
 tcaagaactc attctgtact actctttcca cagccaacca cacacaagca ttttctgcac 300
 caagctaaaa tctgtctgca cctattttga cagcaaaaat tctgcataag tgcagatttc 360
 gaagatcaca cttccccctca tccaatcttg ctcaaatcaa tctaca 407

<210> 16563
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16563

ntaactgaat ttgcaacatt ccaaattgatt ttttaattggt gtaatcgatt acaatatatt 60
 ggtaatcgat taccagtgc tctgaacggt gaaattcaaa ttcaagtgtg aagagtcaca 120
 tcttttcata aaatgctttg tgtaatcgat tacatgggtta tggtaatcga ttaccagtga 180
 caagttctga ataaaaagtc aagagatgta actcttccaa tggttttctc aagattttct 240
 caaggttata actcttcaaa tggttttctt aaccagacat gaagagtcta taaaagcaag 300
 accttgactt gcattcaaatt aacttttaca acttttgaga aatcttgaaa cctttccttc 360
 tcacttttct tcttcttctt ttgccagaaa gctttctatg ttttctgt 408

<210> 16564
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 16564

ttgccaaagag actattaact actctgtatt gatcattggt gattatgtcg aagctattac 60
 ccctaagaga ggactaagac aggggtgacct actgtcacct tacctgttca ttctacgccc 120
 cgagggtcta tctaattaa accctaacaa agacaacaat aagagaagga actcatggta 180
 ttaagggttg tagaaggact ccaatcctcc cacacctctt atttgctaatt gattttttat 240
 tttttttata ggagtctatt attcttatgg aggttcttac ttctttatgg caaaatctct 300
 ggtcaaatga ttaattatca aaagtctgag attttcttca tcgacaacac tgaacacaca 360
 attagacacc acgtagcatc tgtacttgggt gttaacaaac 400

<210> 16565
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16565

665406-306466

tgcacatct tagcatagaa aaagggcagg tccatttggg caattaccca tttcatacgg 60
 ttgggttaga aattttgggtg ttgaaaata atagaattgg tgctttctga ttttagtaga 120
 acttgggtcat tactctactg cagaatttct cccttaaact aaaatgtata aatatgccct 180
 tattggccac atgaggcttc agctttgtgt ttccaagtag aagcactttt atttaatagc 240
 cacccttttg tgtacttgaa gttgaatcca caagtagata aactcaagga gccagtcaga 300
 aaattcactg cttangtaac caaaaccatc catttcattt ctataacgct gcttatgcat 360
 aaaaaaact agaaacttat ccaaccacgc atcaataatc aaaccccag 409

<210> 16566
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 16566
 agcttggtat attctttaaa ttcaaaatct tttttttttt tggtttaatg atttatttca 60
 tgttgataat tgattaacgt catgtactaa ttcaagctta gcaagaaaag taaaatctaa 120
 tagtgccctc caagtgttca caagttaact agtaatagga ttaaaagggg cctttttctc 180
 aaatggattg cacttacttt tagccccaca gaaaggcggg tgatttggtc taagttaaaa 240
 ctgcactttt atccaagaca gtcaaattaa aattcataaa ctgtagtaaa aaccaatcaa 300
 gtaatttgtt gtcttctgaa aatgttggag ctactatcc cttaatgaac acacatgaaa 360
 ttgaattcaa attctgtcat ttttggatg 389

<210> 16567
 <211> 302
 <212> DNA
 <213> Glycine max

<400> 16567
 agagcactca ctacatcgctc atgagtcgtg cctgacacgt gactgatatc tttcagacgt 60
 cactggacaa ttattattgc tgaacgctta cctgaccatc tcgtgcgttt accacaatga 120
 aggcttttct gtaatgaagc actctagcct ttgacacact gtaagtccgc taggttctta 180
 tgccaatctc agacgatggg cagcttcagg agacaactgg cacatatccg tttatgcagg 240
 ctagaaatac ttagcccaag ttagccaaga aatatgtcga cactgttttg atgcacaaat 300

ga

302

<210> 16568
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16568

tcgccggatg atgccgatcg aacattttccc aatcgatatt atccaattgt tgttcaggga 60
 ttgactatag aataaacaat ggccgggtgt cggttgctat atggcctcga ctgatatcct 120
 tcagccgaca ttgcgcaatt tctttttacaa acgttggctcg ataatgtttt tttacggtag 180
 aggaagtttt ttgttttgct gttgcttaaa aaattttacaa tgtagggttag ctagggtattt 240
 ccgtgcgagc tcaaccgaag ttgngtttcg gccgacactg gcatgtttctc atttagtcga 300
 ccaagataac gttagccac cctggcacia aaaaaacatc attcacgaaa attgatcgaa 360
 caaatgatag ctgacgtcgg cgtggagaga tgatgtgaat cttacgagge agatcgcttg 420
 atac 424

<210> 16569
 <211> 355
 <212> DNA
 <213> Glycine max
 <400> 16569

agcttacttc tatttactac cctcattctt tgatgtatat aatatagggg aacttattgc 60
 aaggattacc aaatgaggac ccctatgaac atttggcaac attcattgaa atctgaaaca 120
 ctgcaaatat tgcgcgtgat ccagatgaag ccattatact cgatctatat tcaatgtgct 180
 taatcagaga agcctaaagg aggctacact catttaaagg gaacaatctg aaaacctgtg 240
 aatgatgtta ttgaacagtt tgtgaggaaa catttccac agacaaagac tgagaaaggg 300
 aaagctacaa tctcttcgat ttgtcagttc cctgacgtaa ccttgaatta agcgc 355

<210> 16570
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 16570

tggttcaact gagtagccat ctgccccatc taatttgtca aactcttaat ggaggctctt 60
gtctcttgct gaaattgcat attctggatg gtcatttgcc tctaactc ctctaaggaa 120
ggttgagaag gggcctgact tgcttggtgt cttgtcgct attgctgcat tggaggagga 180
acatatggcc tgcttagact agcaacattc tagaaatgag ggacaaattg ttgttgctgc 240
tggttggtgt gtggaggatt tgcccatctc agatttggat gattcctcca acctggattg 300
tatttggtgc ttgaaagatt ataattattc tgctgttgct ggtttttttg ttgagggggg 360
ctattataaa tgtttgagc ataggcttca ggttgctcat tgactccagg ttgctgcaaa 420
gaaagat 427

<210> 16571

<211> 334

<212> DNA

<213> Glycine max

<400> 16571

agcttctcta tatacaatag ggcttaatcg gacatccgag ttaaagata ttgtcgtgag 60
atcttctca gagcttccat tttcaattac gagcgctcg atattcaacg ggactcaatc 120
ggacatccga gtccaaagct attgtcgcg gaatttactt agagctcctg tttcaattg 180
cgagcgtatc gatataattat agggctcaat ctgacatccg aattagaagt tattgtcgct 240
tgaatatact cagagcttct gtgttcaatc acgaccgtct cgatatacta caggacacat 300
tcggacatcc gattcaaaag ttattgctcg taga 334

<210> 16572

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16572

ntacagcaga ttttagtaat gaccactaa cctagattta aaataattta atgccattaa 60
cctaggggaat taaaaaaaac ttaatggctg agtgtaactg aaattgtggc aacaaaagt 120
caccocaaac agccaacttc agccaccatt tggctcctca aaaggctgat gcctaggttg 180
ccaattgggc ccttattaca acttgaacta aacctaacta aagccctttt agttgattaa 240

cccaaaacat attttgggtca gccaaacttta caaggattgg gccattatth agacaaacta 300
 aacactctaa aattgagaca aagtgggtgc attcagtcct cctccatttg ggccatgata 360
 caactcacia ccttggactt ttctccttga aacttngngct tgtattcaaa tagtatggac 420
 agcacttg 428

<210> 16573
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 16573

agcttctgct tgtctagata ttcttagaga gagaaaggte caagttccaa agagttttga 60
 gattttgctg tgcaaagacc tgcagagAAC cgagcttgaa gaagaagtcg tcttgagagc 120
 atgagatgag ttgtgagtg attgCGaggT tctagaggTg gaggagacat cctcaccgct 180
 tgtatttctt caatccttca tttttatttt ctctttgttg taaaggaagc ttcttagcta 240
 ttgagagtta aatcctttgt tggttcttcc ttgtaagcac ttgatgtaga tacctgttta 300
 tttatttaat gatgttttgt gtgctatcag aacttcattc taccatgctt gttccttgat 360
 cacatagatg catgtgttgt tagaatcatt caac 394

<210> 16574
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 16574

tcaatcttta taaaaaaaa aaatcaaatt tgtacatttt cagtttataa aatgaaaatg 60
 aaagaaaaaa aaaaagagag aatctaagat gtgaaaaaaa aaatggaaaag ggacaagtaa 120
 tggagcaaac aactaccat taccctctct tttttccagt tttccagcac cacaagtctc 180
 caactccaac aaaaataaaa ggcataacgt acaccaagag agaagaaata gagtggggaa 240
 ataacaaaaa aaagggaaaa aatgacgttt gcaccgccgt ccataccact actctcagag 300
 tttatttcgt agacaagtca aatctagttg ctcatctct agctcaggca tctagatttc 360
 ctgctaacat atatctttaa tagtattccg agttgtattc tagttattat tattaatgaa 420
 atgatatgag tat 433

<210> 16575
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 16575

ctaacaatgg atttcaaaat ctttggtttt tatgggtcaa tgaattattg catgttgata 60
 attgattaac gacatgtact aattcaagct tagcaagaaa agtaaaatct aatagtgcct 120
 tccaagtgtt cacaagttaa ctagtaatag gattaaaagg ggactttttc tcaaattggat 180
 tgcacttact tttagcccca cagaaaggcg gctgatttgg tctaagttaa aactgcactt 240
 ttatccaaga cagtcaaatt aaaattcata aactgtagta aaaaccgatc acaagggttg 300
 ttgtcttctg aaaatggtgg agcttactat tccttaatga acacacatga aattggattc 360
 aaattctgta tttttggat 379

<210> 16576
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16576

ttgcaatttg gcatctaaat tctgagagct ctggacttat aagtctgcta aagttggaag 60
 tggggctgaa gtacaggatg cacggatgcc gactattagt gcaaaggaag agggaacatc 120
 aaccgctctg agcatggtct tccttgcctc ttgaaattta actgtttggt tattcacatt 180
 ccaacatttc cttatgatat aagctaagtc aatggccgac ctttaagttt catagaaggt 240
 aagggcatca gactctactc ccctcgatct acacaaggca gtgattaaag ctgggaagcc 300
 taagcgagaa gagttagact gagccatcat ggatcattntt ccagagatca aactgccaat 360
 gttcatgtcc atccttgtga ctaagccata gaacaaccta gctctgtctg tgtcaaattc 420

<210> 16577
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 16577

tgcttctatc tatttcagga tcaaaggggt gtaaatacacc tggattgctc ctagtcatgc 60
 actatatgca gcaaataatg tgttcctcaa caagcaccta acaaggggtt aaaactacag 120
 ctatactcaa acgatatcaa gatgagctga aattttgtga ggaacaccct acaatcatga 180
 aaagatagca caacaatttt caaacaaaaa ttcaaagtct aactatgaaa actacctacg 240
 caaagtttag aaaaataaga caataatact taaaaaataa aaaagaaact tagtaaacga 300
 ctgatttttg gagtttggga gacccaacc ggctttcgcg gagtgccaaa gtatggaaaa 360
 aaaatttcta tcccaaatgc atatataata 390

<210> 16578
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 16578

tctgctcgcg catgtcctcc aagagctcct catactccct tgcggcttct gccacgcct 60
 ccgtctccga ttttatctgc ctctcttaa gcaacttgta cttgtagctg ctactgctgc 120
 tgctgttgct cacttttgtt tctgccttcg ccatttgctg caacaatttc tgaacctcgt 180
 cgtagtcatc ttcgggtgtcc gtggactcaa tagcctcggc aacgctagaa aagccttcgt 240
 aaaaaagaaa cttggaccgg ctacccccgg ctttagggaa agcctgaaat gggatatgggt 300
 ttatcgtttt acttgtttgg ggcttacaga atctcggata taaagaagaa acgcggaagg 360
 tgttctctaa agttgaggaa gctcgtttgg ctacgttggg ccacattttg tac 413

<210> 16579
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 16579

ttcttgttgc tggagctgac ccatcaactg gtgatcccta agctcttgac cttgacttga 60
 tagaacctct ttttaagcga aggcgtttga cttgatccca tgttttacta aagtgaacaa 120
 aaatctagtg cgaatcaaaa ctccgacatc tatcatgggt ggaatgcatg aatgcatgaa 180
 gaaatgcata tgatacagat gcaatttatg aatacgggag cccgggaaat tgtctccttc 240
 ttagatacaa cgtcttgagg tagcacagtg cccgacgtat gtatttaaga aggtgacacg 300

gacccttcgt tagcttgcca aaaagagagg atcaagacag aactcgtgca tgatgcgtat 360
gtgaaaggca caatacgtgg atgta 385

<210> 16580
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16580

tggttntggg caatagcacc ccacctgacg tcttcatgtc tctgacccc cgcgacatat 60
ctccaggtag cactctgtgg tcaacaataa aagcaggaag ttccaccctt caacacttcc 120
tcatctcaag cttgtaggat tatggggtag ccatcacatg tggtagtagg tggcggtcgg 180
gcatggtgac acaacaagt ttccacatcc acaatgcgag cataaaccac ccatcccttg 240
ttgcccacct ccatccgagc tcacgtactc ccacgtagcc catatccccg ttctgctcaa 300
caccaggtag ccatcaatcc tcccaagctt ccaaaacatc caagcaaac aacattcaaa 360
cagcacaac taccacagcc aagataacag ggcagaggca gaaaactctg cccaaaacac 420
caacca 426

<210> 16581
<211> 391
<212> DNA
<213> Glycine max

<400> 16581

ttttcttata ccaaagcgac acaaatcta ggtatccaat acccctcaat ttaatggatt 60
ttcaaggtag gagaagcgaa attgagaatg acgtaaattt ggagcaaac ctcacctcac 120
acaagtctat aacatcaatt taaacttgct catactggat ttacaccta aattccaccg 180
aatcaaaatt tgactcctca acaccaatt ttaccctag aaatgactct ttgtccactt 240
ggtcatttgt ttttctcact tgcacagccc aagctttctc ataagtecta atgacattt 300
caaactatga ttaactcact ttaacctcca aataccacta aatccagatt tggccttcca 360
actctcataa actcactctg tttccactca t 391

<210> 16582
<211> 419

<212> DNA
<213> Glycine max

<400> 16582

tatagaatat ataatataag aacactgaca atataatagt ctatacatgt ttcctttgat 60
gagtctaattg ccattcttcc aaggaaggat ttttttagatg atatttcaga ttccgtagaa 120
gatacacata ttcattggaaa tgattctaaa gaaaaagatg aaggaagcaa tgaggattct 180
caagataatg gggctagagg aaataatgaa cttccaagag aatggaaagc ctcaagagat 240
catccccctg acaacattat tgggtgatata tcaaaagggg taacaactag acattctctt 300
acagatttat gcaataatat ggcttttgta tctatgattg aacctaaaaa tataaaagaa 360
gccataggag atgataactg gatcattgcc atgcaagaag aactgaatca atttgaaag 419

<210> 16583
<211> 389
<212> DNA
<213> Glycine max

<400> 16583

tgcttgagat gaggaagtgt ataagggtga aacttctctg ttttactcgt tgaccacaga 60
gtggtacctg gagatatgtc gcgggggtca ggagaccttg gggacgtcag gtgggggtgct 120
attgcccata accaagcttg accaatcctg acccaaccg gccatagtca gtcagtgaga 180
acctgtgatg tacctaaaca ggcgagctcc tggcagtcaa cagataaaag gaacaaaggc 240
caciaagcat gggggcttgt ggtggctggc cagctgtgaa atttgattga tatgtgagat 300
atggcctctg gtaatcgatt accatgggtg ggtaatcgat tacaatgctt acaaatgaag 360
acaggaggct aagatgggtc ctggtaatc 389

<210> 16584
<211> 416
<212> DNA
<213> Glycine max

<400> 16584

tgccaccag cttgccagg tgagctagat tgttttctcc ataagcaact gccttctaaa 60
ggaatatattt ggaaggccaa gtgggtctgg ttgctatttg aacccccatt tttactaaat 120
acacccccctt gctctttatt ggagattctt tttccgtaac gttatgaaat tttacgaatt 180

tcgaaacgat gcttgggttc ttcccataat gttacgaaac cttacggatt acgtaatcat 240
 cccttttttg ccttcggaa cgttacggaa ctttacggat tgcacactaa cacttccttt 300
 taatttctgg catgtcacgg aacttcaggg attgtgctac aatgccttct ttgacttcc 360
 ggcattgtcac ggaacttcac gaattgccta atgatgggtg ccaagtacct cgaagt 416

<210> 16585
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 16585

agcttgtata gatccccaat ttatggatat tttttattga gacgctaact cagacttgat 60
 gtatggctaa cgatgtctct agaacatttc cattagattt aaagatgaaa tctgtgcatt 120
 ttcaggtgaa aacaaaggct aagttttgaa ttgcaaagag tagtagttgg gctaagctca 180
 atagtttggc taagcacata tccatcacta agcgcagctt caacacactt agcgcaaagg 240
 agaatctggc aaagcatcag catcaaagcc gcgcgctaag cacagcaggt gccttcagcc 300
 atgctaagct cgggacatgc gttaagcccg aatccactta ctgcgcgctaa gcgcagcatc 360
 gc 362

<210> 16586
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16586

tgaaattgca tgtgggtacc tattttgaat ctctatgct gtctctactg acataaaata 60
 gtcccaccat cccaattttt gcaaaacat attcatatat cattggagca ttccaccgag 120
 cacttggtgg gcgcaggttg ggacataaat tgcaagagaa tgggggcaat gcggcatgcc 180
 ccattgcttc aaaatacaac ataggcctaa ggccttctca ttcaaactct caactcaaga 240
 aatcaagcat aaaaacaaac aaaaactgcc ccacaaatat aagcacgttc tcacaattaa 300
 aagcaccaaa agatgaagaa aatactccaa tgggaagcaa aaaactcaag gattgaatac 360
 ttacttggtg gagtgagtag aaacaccaaa tatgacagca naatgcaacc a 411

<210> 16587
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 16587

tgcttagtaa agctaggcac taacaatctc cccctttggc aaattttgtc taaaacatac 60
 ttagacactt cctgagcagg tacgagcagt tatgcatgtg ggatcagcaa ctttcattat 120
 cagagtaatc aagcacagcg gaaattctgc aagttgcaag tcgtttccag gatgtcaaga 180
 catctcacat gacatcagct ttctgcttct gctccccctg tctccatgct cttactgcag 240
 catcttctat cagctactag tcttttccag gatgtcaaga catctcatgt gacatcagct 300
 ttcccttgtc tccatgctct tactgcagca tcttctatca gctactatta gcttacatca 360
 gtcacatca gcagcagcag tcttccc 387

<210> 16588
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16588

tgactaggcg agttgatttt agccttagtt tcactttagt tattagtcaa ttcaattaag 60
 aatgagaaat cccaaagaga aaacgtccga ttgatttttc gctttatttt actaaaagg 120
 attttttatt attatattat tattttacct cttttttgat ttccaacgta gttacggcac 180
 gaccgaacgg tcggaattca ttttaaccga aattaacgga tgatacaatt caaatgatcg 240
 gtggaaattt attttatttt tagattaggc gagaaatgac ttaaataaat gactgaagca 300
 cgtcaaaagg ggatatagaa agcgaatgaa aatgagaata aaaatacatg atataaaatg 360
 tggaccacca cgggtacata gaatgaattg aanagctcgg cttgaggtac ttaccggtg 420
 aa 422

<210> 16589
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 16589

agcttgccga gtccggagac tccgtgaaaa acgattctgg agtttgtgac actaacgctg 60
 agttaatgtc tttcaaaaca acgtcgttga cgacgttggt gttgttggtta ttgtcttcct 120
 cattgttaat tttggtggtg gtgactctaa aagagagggt tttgggttgg tggcaggatg 180
 gccaggccct tgatgaagaa gaggaggagg atctgacatg tctgcttttc agaagattaa 240
 aaaacttcat ttttaattag aaaaaagaag gtaatgagag gaaacaaaat ggatatattc 300
 aaatgagttt tggaggttct gatatggcag ttaagtccat agaggaggaa ttaatggttg 360
 gtcagaaaaa tggactgtgt ggggggatga 390

<210> 16590
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16590

ntgctagtga aggtcttgaa cgaggctcat gtggcccaag atatctctgt agaaggtttt 60
 ggaggactag tcaataacat caccgccaac aactatctcg ccttcaccga agaagatata 120
 cctgtcgagg ggagagggca taacagggtt ttgcatgtat cagtcaaata catggaccac 180
 gtcgtggcca aggtgctcat cgataacggt tccagtttaa acgtaatgcc caaaagcacg 240
 ttggagaaat taccgtttta tgcttcccat ctaaagccaa gttccatggt ggtccgtgcc 300
 ttcgacggca cccgccgaga agttagggga gagatcgacc tccctgtata gataggccct 360
 catacctgtc aggttacctt ccaagtaatt gatattaacc cggcttacag ctgtctttta 420
 ggacgcccgt 430

<210> 16591
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 16591

agcttgatgg cgtgtaactc accattttcc ataataaac actttatgtc tactatcatt 60
 gttattattt ctttcttcgt cattgaggga aacacttggg ttgccagatc cctccacctt 120
 tgggtgtatt ctttgaaaga tctgtgcccc ctttttgac atgttctgta gttgcatcct 180

atccgaagcc attataactga cactgcctaa cgaaggcaac cattaggtcc ttccaagaat 240
 agactcggga aggttccaag ttagtgtacc aggtaacagc taccacagta agactttctt 300
 ggaaggaatg tatcagcaat tctcatctt ttgcgtatgc ccccatcttc cgacaatgca 360
 tcttttagatg gttcttgggg caagtattcc ccttg 395

<210> 16592
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 16592

tgtaggatta tggggtaccc atcacatgtg gtactatgtt tcggtcgggc gatggtgcac 60
 aacaagtttt ccacatccac aatgcgcgca taaaccacc atcccctgtt gccacacctc 120
 aactgagctc acgtactccc acgtagccca tctctcggtt tctctcaaca cggggtcccc 180
 atcaatcttc tcaagcttcc acaacatcca agcagaacaa cattcaaaca gcacaagcta 240
 tcacagccaa gcaaaataga gcaaaggcag aaaactctgc tcaaacacca accaaaatca 300
 cagctttttc tcgcttaaag accccagtaa caattccttc gatccaattc gttaaccgtt 360
 ggatcgactc gaaaatttta ctagaagtct ctagtacata agcctacatt gtgaccgttg 420
 ggatctacta 430

<210> 16593
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 16593

agcttatata aatatgaaac aactaaaata gaagtggaat atcgtgttat aagtatagac 60
 aaacaaaatt aacaagagaa aagtaaaaac ttaaagttaa atataaacca ataaaatgag 120
 tagaaatagg atttataatt aaatataaaa gaataaagta tatagaaata gaaatagaaa 180
 tagagtaata acgggtatca ctggccgggg catactcaat ttcttcgacc acacatattt 240
 ctctcgcttg gcttactgac tcatgggatg tcaaggggca tactctacca ctccctttta 300
 tagcctataa atggtgccat ttccacata tgacacacat ttatcattta aaaaaaaaaa 360
 aaaacatatc cactctcttt tatagccaat caatg 395

<210> 16594
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16594

ntagtgcttc tttactgagt caaaagaaag tttggatatg gttttgttca tgtgaattca 60
 ttatcttcac atgataccac tgcgagctaa ctcaacatga aatgcgagct attacaactc 120
 agactatatg attaagtacc ccacatattt gacaagaata ttataattcc tgaacctatt 180
 acaactacaa caagtatggg attttgattg ttagagtaca agtgtgaggt gaagtactac 240
 atcgggtaaa agtgaaaaag ttaagcacca tacaagtga tagaagaccc ataaacctga 300
 gccttaaggt tttgggttaa agtgtgagtc aagtaccctt atgtgattgc tcatggctca 360
 ttgggtgtaa tctccctggg gtttactccc ctgcaattcc ccaacaactg gtatcagagt 420
 cgatg 425

<210> 16595
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 16595

agcttattcg cgagttaacc taggcttaag tgataagatc agaacatgta aggtgatttt 60
 gtgatgtatt ggggcttaag tgcaaagtaa ttgaggatta agtgcagcgc ttaagcatgg 120
 attgactggg gcttaagcct gacagtgatg cttaagcaca actggactag cgtttaagtg 180
 tgactcttta ccatactctg tgtgaatgaa ttccaaatgg atttgaattg gatttttctt 240
 atattagaag gctttgaaat gacataaata ggtttgaatg ttatgttgga agaatttacc 300
 tttactaagc atagataatt agaaattgaa tcaaattggg tatgaattcc ttgtacatta 360
 agttgttggt gatgaattgt tattgaaatg agtctt 396

<210> 16596
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 16596

ntgctcctaa ttctataaaa attccctctg cctagcatga tgtacggtac aggtaatgca 60
cctctgatta ttgtagtggg gaacgaggtt tatttagttg ttaatcattc catgaaccct 120
tttccctaca tctcttttgt agttgcagag gttcaatata taagccagga aaaaaaactt 180
attagtcata taaaatcttc acaaagttaa cctaattggg ccaaatagcc acatgtttac 240
ctgctcagga gcacctttgc tagatcgatg ccaatttcca tcagaatcaa tgtaagttag 300
aggagtcttc ttgtccacaa gattgaatgg aagaaagtgg acctccctaa taccagctcg 360
tgctgatca gttcatagga aaagtgaatt tatttatcac cattcatccc acatcataaa 420
agataatc 428

<210> 16597

<211> 378

<212> DNA

<213> Glycine max

<400> 16597

agcttggtga gcttggaaga ctctctgcat caatgaagaa gttagagaaa gatctcaaga 60
acaagaataa atacgatgta tggtatccat tcttggtgat aaattcttca aactttctgt 120
tatgggtttc ttgggactgt gattgcctta cttttgtatg tgtattggtt acctatata 180
ggctgcagga tgagcaatac cgcgccaaac taaacaagtc aaatgagagg actctatcac 240
ttatcaaagc atgaattgat actgtggtag cagtaagact gtttcaatcg gcaccaaga 300
cagctactcc tcgcgtaact ggggcttttg gatttgatcc gtctctaata tcttgctatc 360
aggtaacctgc tagtataa 378

<210> 16598

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16598

tgacctagt gaccccaaaa cgaaaaaatg gttggtgtat tgttttcgag ttgttctact 60
tagtcgatga tctctgcgcc aaggctgctc tgctttcaaa gcagaggaag atgatgccat 120
tgttccctac gtgcaacctt aaaccactgc tccaactcag gaaaatcgaa aagcagctgg 180

cacgggaagt ggcaccaatg aagaatgtca aaatgttgcc aatccgggat gtagaggagg 240
 aaaaagaagc agaaaccgtg gtgcgagggt atgtcaagga aaaaattatg aaaagcatct 300
 tggacaggaa gaaaggtgtt gttcgagcgg ctgtgattnt tgggattaca ggggttagaga 360
 agggaaaagt tactgaatat gtttgcaag atgagaatgt gaaaagtggc tttgacgt 418

<210> 16599
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 16599

tttctttcaa tctcagtc aa ttggcattca gatggttact tttcatgctt tagagggtgtg 60
 agataagggg accccatttc tccccgtata ttttgtcttg ctgaggagca aggttcttag 120
 cagaggcata tcagacttgg gtcacaaggg caaattagcc cccatgggtg gtccacctc 180
 cttctcacat gctctatgca aatgacatca ttatcttctg cagaggcact aaaaagaatg 240
 ttcacaatat tctgaatctg atgaatatgt atgcataagc ctccgggtcat gaggttaacc 300
 atagaaagtc tacttaatat tctggtgggc tctctaataa tcggatgtat gaaagctcct 360
 ttatactt 368

<210> 16600
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16600

agtcgagccc gtcacagcac tggaggtgtt tgtatttcaa ggggtggttcc aatgcccctt 60
 tttctcacia aaacaacatt cgacgcaaca gcaatggtgt ttgcaaacc aaagaacgaa 120
 ctaaagcgga taaagaaaca aaaacggctc ctctaagat caccaaccac gcaaatgcag 180
 acatttcagt tcaatcatga ccgaaatagc cttcacatca cttgattttc atggggactg 240
 acttttgtga cttgcggagt atatgttatg taacttataa tattgctaca cggcatctct 300
 tactgttata taatgaaagt tattgatgta atatgtgagg atgtttcccc agactagtcc 360
 ctggattnta aatttaaatt aaatgcttcc agcacgacta gtagcattag gggctcttatt 420

ata

423

<210> 16601
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16601

ttgcttatta agtccgtcta tggattgaaa caagcctccc gccagtggta tataaaat 60
catgaggtca tttcttcatt cagctttgaa gagaatgcc tgtatcactg tatataccag 120
aaggtcagt agagtaggat ttgtttcctt gtattatag tagatcatat tttgcttgcg 180
actaatgata aggtatgct atatgaggtg aatcaatttc tctcaaagaa ctttgatatg 240
aaggatatgg gagaggcatc ttatgtcata ngcataaaga tccatagaga aagatctcga 300
ggcatttttag gcttgtccca agaaacctat atcaacaaag ctttagagag aattaacatg 360
aaagattgtt caccaagtgt agctccc 387

<210> 16602
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16602

ntaagagcaa ttcccttctt cttcttatca gtttcttttg ttgatttagt ctttgcaact 60
ccatctcatg ttccctgtaat tttcaaaata aagtagcaag agacataata gacaaatctc 120
tagattctat aatgggtgtt acttttggtt gcctcatttt gaaaagttct tcctaatgaa 180
gcaagatggg taactatatg tgtgaatctt ttctgcatat cttgtatact ttcatttgct 240
ttcatcctaa ataattcata ctcatgagtt agagtattta tcttagatct tttgacatca 300
gttgttccct catgtgtaac ttgtagagt tccacatat ccttagcact cttacaat 360
gacaccctan aatattcatc cattcctagg gcagaagtaa tgatattntt agcctttaa 420
t 421

<210> 16603
<211> 395
<212> DNA

<213> Glycine max

<400> 16603

tagctttgat gatatggtct tcaccgacga aaggatcaaa gtgggtctaa gaaaaggcaa 60
atctaatacat catgctttga taaatgccca aaagataact atggcaaatag aaaagggtga 120
gaatgaggga gaagcccatg ctgtgactgc cattcctata cagccatgtt tcccaccaac 180
ccaacaatgc cattactcat ccaataacaa accttctect taccacccgc ccagttatcc 240
acaaaggcaa tccctaaatc aaccacaaag tctgtgtact gcttgcaatg acgatcacca 300
ccttttagcac aaaccaaata caccaaccaa gacatgaatt gtgcagcgag aaagcctgta 360
aaattcacc ccaattccatt gtcctatgct gactt 395

<210> 16604

<211> 444

<212> DNA

<213> Glycine max

<400> 16604

gacctatgaa tctcagcttc tatataagct gaaccatttt atcaataaac tttgtttgag 60
ttttattcag aaaattagag gttatctctt ttatcttagt gagagtgatt ctcttaaatt 120
cttgagtgat tcaagaacac cttggctgta tcaaaggact tccacaacct ttgtgtgttg 180
acctcgctgg aaagagtgat tctttccttc ctttcatcat cacccttggt ctttcaaacc 240
acaattccag aaaatccacc tctgccaga attatctcgt ggccataact cccattttac 300
gcactcaaat taagtgatcc ttgagcctaa attgaatttc aaaacgagac ctttcacctc 360
gttttggaat catctcattt ggagccctgt agattcagtt attgccattt ctatatttct 420
gtccagccac cacttaacct acgt 444

<210> 16605

<211> 391

<212> DNA

<213> Glycine max

<400> 16605

agtctttcct tttgtcctc ctcatagttg ttgcatgaga atacatgctc tattttcacc 60
tcccactcca agtaggcctc cggatcattc ttgcctttta gcggaggaat gtcgagttta 120

ataccatgaa ttcggttttg tctaagaaca ccatcattcc ctcttgcct actttcttct 180
tcattatgac ctctattctc catttgatcc aacctctcat ggagcgcac atctcgttgt 240
ttcattagcc tctccaaatg atgcatcgaa gcttgcattt ggaagtgcga aacccccact 300
ccgtcattag gattagtacc tgacatgtca aaccggcaaa tcaaacgtaa cagcacaatt 360
cttgcctgctg gtggaacacc tgaccactc a 391

<210> 16606
<211> 422
<212> DNA
<213> Glycine max

<400> 16606
tgcatttgga attgcgaaag cccactcca tcattattat tagtacctga catctcaaac 60
aaacaaatca aacgtaacaa gacaattata gttgctgttt gaatacctca cccactcaag 120
tgtatcacac aattatggct tttctctaata gaaacactct tgccttttac cactctaatt 180
ccccttgagt tcttaggcaa ttcaagagat tatggccaca acaaagaaca attcaccaat 240
atgtgtaagg taaggctaga caaggaaaag gttaaccaag aaaaaggcta acaatgtttt 300
taggcacata tgaaggaaat aaaattcaga attaggaat tcaagtaaca atccttcatg 360
caaccaatat attaccttaa agagtttttt tttttaagt tcttcaagca tgaagcattc 420
ag 422

<210> 16607
<211> 388
<212> DNA
<213> Glycine max

<400> 16607
tatcttattc aggatatggg atgtcactct gcaaagtgtt gggaatggaa gcttgaatgg 60
agaagacacc tttttgacaa tgaggtgcaa gcggcaacca gtttcttgga tgatatctcg 120
cggggtcata ttgatcgttg gacatcagac tgctgggttt ggaaaccaga acctaatggc 180
aagttttcta caaggagtgc atactgtatg ctactagaag gagcagcata tcagactatg 240
gatgaggctt tagaggacct atggcagctc aaaatacctt taaaaccaac aacatttgct 300
tggtgattga tcaaagatag aatcccaact aaagggaatt tgtggagaag acagctggag 360

aaacgctgtg cccagcccta caactatt

388

<210> 16608
<211> 432
<212> DNA
<213> Glycine max

<400> 16608

taagaaactc cgcttcttga cgggtgatgt tcaacaacct caccttattt ctctgtttcc 60
atcttgcgaa ttctacttct cctctaggaa attgcagctg cgcaagttca acaagctcat 120
cgctcgacat tgcgtcttat tcttctccta taacaaattt ttggagagat ttgtgtggtt 180
gagtaatggg ttttgggtga tcgtttcatg catcacttca tagtacatta tgtattattt 240
gaaaagtatt ttcttgtcta tcgtctcatg gtttatttta aagttagatt aatggcattt 300
gtcaagcatt tctcaaccat ttttgtcatg ctctgcttca agcataaact attattaaaa 360
ctttgaaaca tttagctgaa acacaaaagg agaagaataa tgaatataac aaggcataca 420
aaacattaat gg 432

<210> 16609
<211> 348
<212> DNA
<213> Glycine max

<400> 16609

agcttcccgg atccattctt ggaaggactt gatggctgct ttcacagga agtatcaata 60
caacactgac atgggtcccg atagaacca attgcaaacc atgtgcaaga aggagcatga 120
gtctttcaag gagtacgctt agaggtgaag ggatttggtg gcccaagtag cccccccat 180
gatggagaga gagatgataa ccatgatagc agacacattg tcagtcttct actatgagaa 240
aatggtaggt tatatgcctt ctagttttgc agatttggtg tttgcgggtg agagaattga 300
agtatgctta agaaagggga agttcgatta caccacttca gcaagtat 348

<210> 16610
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16610

tggcattccc attggtggaa ggaccttagt tttctttata atcagtctga tttccacagt 60
 atccagtaga atatggtatg gaaggttggg tgtggggaca aaatcaaatt ttggcaagat 120
 tcttgactga gtgagggctg taagcatttc aaaaaagat tcttggcaat atggaaggaa 180
 ggtagttta ttaataatat tcaaagaaag attctcagag tagaaccctg gcagaccaac 240
 cctggatggg attcagtttt ctctcttgg ccaagggcag aaggaaagcc ttgctgctag 300
 attctctgaa gtggaaatta agtctgcagt ttgggcttgt agtggagata aaagccctgg 360
 cccgtatggg ttgaacttca actttatcaa gtagttntgg gaaattctaa aacctg 416

<210> 16611
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 16611
 tagcttaaca tgccccctgc caaattctga gaagtaccta actcctacta agagcataaa 60
 catttacaga gggatttcca aaaccagatg cacttattgc cgaaaaatca cgaagtccaa 120
 agtcctatat atgttacgtc tcaaaaattg gatgcaatct catgttgtaa caaagtcatt 180
 tacaaatccc ccagtcccca cataaaagat cataacttgtg ccattacttt gcaaattaaa 240
 atctgtctcc ttgatatgaa tatattgaag aatttcttta caggtgaatt acatgataac 300
 tgatcagcgg ataagtaggc agtatggaaa gctggtaa at aaaaagacaa tatgattcac 360
 ataccagaag tggcccactg gtccaacgaa a 391

<210> 16612
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 16612
 tctagtattt ataggttttc ttcttcaagt gttcattgtc tttaaacaaa tagatttctt 60
 cacttaaact cacgtatgaa gatgtgactg ttgcattaaa tgcacatcct cctcatgctg 120
 gaaaaccatt atcttttagct accttgaaaa atacttcagc aggaaaccac ttgctttcac 180
 tcagagcaag tttgtcatag catagcacat tgtttgatac tatttgaact tcaaggtgtt 240
 gaatgttctt ttatgcttct taggattttg atagattcta agagaatgtc gtgtaaaaca 300

gttcttgcaa aatgaatctc agacacaaag tattaaatga aaatttttaa tgcatcttta 360
aatgttgat caaatcataa ctaatgttta ctttcatttg aaacttcaaa agcatattca 420
atg 423

<210> 16613
<211> 390
<212> DNA
<213> Glycine max

<400> 16613
agcttgatg gttaaagtct cacgattgtc acgtgctcat gcaacaattg ttagccatgg 60
ctatgcgaga catcttgcca aacaaagtca ggtaacgat aactcgctg tgctttttct 120
tccatgctat atgtagcaaa gtcattgac cagtaatgtt tgatgagttg gaaaatgagg 180
ccacaattat actgtgcctg ttggagatgt attttcccc tgctttcttt gacatcatga 240
ttcacttgat tgtgcatctg gtcagagaaa tcaaatgttg tggtcctgtt tatctacggt 300
ggatgtaccc gggtgagcga tacatgaaga tcttaaaagg gtatacaaag aatctatatc 360
gtacagaagc atctattatt gagaggtaca 390

<210> 16614
<211> 429
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 16614

cttcagatc agagtgaat gtattctgat cccgatatat atagaagact tgtgggaaaa 60
ctcatctatc tcaccattac aagacctgat atttcctttg ttgttgaggt ggtgagccaa 120
tttatgcaaa atcctcgtgt tgatcattgg aatgctgtta tgcgtattct tagatacatt 180
aaaagagctc caggtcaagg attactttat gaagacaaag gtaatacaca agtatctgga 240
tattgtgatg cagattgggc tgggtgtcct atggatagga aatccacatc cggatattgt 300
gtctctattg gagggaatgt tatttcttgg aaaagtaaga agcaaactgt tgttgctaga 360
tctagtgcag aggctgaata tagatctatg gctgtagtta catgtgaact tatgtgggtc 420
aaacaaatn 429

<210> 16615
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 16615

agcttcctttt acaacaaaga gaagagaatg aaagatttca gaaatacaag tagtgggggat 60
 gtctctcca cctctaggac ctcaaatcg ctcaaaact catcgcaagc tctcaagaca 120
 gcttctctt ccagctctag tctttgtaga tcttcacaca acaaattctc tcaaactctc 180
 tggaacttgg acctttctct ctctagaact ctccaattat gtagaagctt caagaaaagg 240
 ctaaactcct cttcaaaatc agatttcagg cttaaataagg tggctttggt tgtgctcgtg 300
 cgcttagcgc aattctgaac cgcttagcgt gcattagtga atttcggctt atcgcggtt 360
 ttctcactca gcggatggac tgaagcagtg tgctt 395

<210> 16616
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16616

tgtaatcgat tacatatata ctgtaatcga ttaccttagt tgattttcag aaaatactct 60
 caacagtcac atgtttttac ttggttcttg aatggccatc aaaggcttat atatatgtga 120
 cttgagacac gaatttgcta agagtttttc agaacaaaaa ggtcttatcc tcttaaaaag 180
 caaaatcggt ttatctctt acaaattcct tggccaaaac acttgtgatt caataaggat 240
 ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagattact tcttttcttc 300
 ttctttattc tgaaaaagga ttaagagacc gagggctctt tgttgtaaag aaatctgaac 360
 acaaaggaag gggtgtcctt gtgtagttca gatcttgtaa taggctntta caagatagtg 420
 gaactct 427

<210> 16617
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 16617

agcttctcaa tcttgatttt aagaagatca gaacttgctt tgaaccttct gagtctgatg 60
 tgttttcttg ctctctcttt ttttaagcaat attccccaat ttcaccaaga tttctgactt 120
 gtcttcaaaa tattggtttg aaacttccca atgttggttt taagaaagtt ggaatttgct 180
 tttctttggt tatggatatt ccaactctct ctttctagca atattctccg aattcaccaa 240
 catccctgag tgggtctttca aactattgtc tttttcagtg gaactgagtt ttatgttttt 300
 tattgggaat gaaattatct tgtaataagc tgagagtta gtaagcttca gcttgagggtg 360
 ggagtgttaa gaatctgaca gatattctag atg 393

<210> 16618
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16618

tgcttctata gccaaaagta catattcgat tgtaagatta ataaagaaga gtcaaatacac 60
 atctaaacag tgttttgttg tttcatattg ctgaaattga taagaaagac aaagggttgca 120
 gttctcaatg ggaaatgaat caatcagcca taagacaaca atataggaca actatcttat 180
 ttttaattaat ttatttcata aatttgtcta tttttacact tctagcgtct attcaagcat 240
 aagacagtaa attggccata ataggcatgg cactaatatt taaaaaataa aacattgaaa 300
 ttttgacaat aaaattgtca taagacagta aattgcccata aataggcaag gcactaatat 360
 ttaaaaaata aaacattgaa attntgacag taaaattgtc actttttact atgagatgtt 420
 gataaaag 428

<210> 16619
 <211> 147
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16619

gtgcgggtccg tatgccattt cttctgatga gacagcttat tcaccatggt gctgcatact 60
 ttgatttatt attatgcatt ctctgtggcag aaccacacac tttgagacat gcctcattga 120
 ctgaatcaaa atgccccgag ccctgcn 147

<210> 16620
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 16620

agcttcttac catttgaaag cacttgaatt ctctaaaca tgatcatcat atattctcct 60
 tctttcatgg agaaactttc ataatgttgt gtcagagtgg caacctttct tagttgaaca 120
 tcttatgttc cttcatagtt gatgcttaat gagtctcaaa tctctttggt tgtctttagt 180
 ctgcatactc tgttgactc attcttggat agagagcatg tcaaagtata acgatttttt 240
 gtgttttagct ccattattgc aagggtctgca tttatccatt ctgtttcagg tttgggaatg 300
 ggtatctctc tatttgtgat gatcaaccaa agtctctagt ggttggactt gatgtacatc 360
 ttcattattg ctttacagta a 381

<210> 16621
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16621

tcatttcctc taatagaaat tntttggtga ctttgattta cataaatcac attcaatcca 60
 tttgctgtag gaattttcac atagtatttt gcttagtatt atttaggtct tgcctttgat 120
 attgtctaaa gctatgcaca tttaattaat aatagggat attattggca aaatattcat 180
 tctcttattg tttattaatc tcagaatcag aaatatgcca agattgtaag atcaaaattt 240
 gggttttctat ggcttttcta gtgagtgtta ttggatctag taataggggg tactgaatca 300
 aaacttgtaa gttgaaactt aagggtacat agcttgcctt gccacatctg gaggttctgg 360
 tttgagtgca tttgtaggaa tataaatggc ttctcaattt agtttctcat ttgcataatca 420
 cacatact 428

<210> 16622
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 16622

tatcttttgg agacagagtt aagcaactga ttaattgaaa gaagctctga atgggggtcac 60
tgtcgatgta agtttccctt tgacttgta tattgcctgg caaaaatata gttgcgagtt 120
tccctttagt ttgttatatg actggtaa atgtttgcagc taaaagaaaa ccgagagcca 180
agttgccttt actttttttt tgatagttac attcactatc tcattgcatt catagcttcc 240
tttgccattt ccattaatag aatagagaat tcttaggcat atgagcattt aatgcatctc 300
tgtcactgac tctgctcaat agctttcaat aattacaatg acatcttttt ttttggttgt 360
ggaagatagg cagagtcata gagatataaa 390

<210> 16623

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16623

ttctacgctg ccagttaaca aggtatgagc tctatctatt ttgntgttct tcttagtaag 60
ttcttaatca atgcgggtggc attgtctgaa ggttcttctc aaattattgg gtcattttgt 120
ccacttggtt aaccatataa aagtatcaat aagaatggta atgtgggggtt tcattttgtt 180
gtggcagttg attgtgcttt acgtggtttt caagcttgac gagagttaca cgccgagcaa 240
agtttccatc cgtgccgggtg atggttttca caacttgaag gtaaattttt attttattgg 300
tttggttttg attgggatga ttatgcttaa ttatttgggtg ttgacttttg gaacattttt 360
aggagattaa gaccgtggaa ctgctgaagg caactgggtg ggtttatcta tccttgtc 418

<210> 16624

<211> 385

<212> DNA

<213> Glycine max

<400> 16624

tgcttgtagt cacacaagga tggatttttg ctctctgtt ccctctctt tccaggtcag 60
tctgtgtaga ttgattggac aaagacttcc ttttatgatt tttagggtgt ttttccac 120
tgcagtaa attgcaaaacc atctaataa ggaggatgat agaaactggg tcagatttag 180
cacaccaaga atatactgtt actgattaac agaaagaatg cacaatttcc ctggatatcc 240

agagatccaa gactctccct agtcacaata ctaactcacc aattgactaa ctctctcttt 300
caatctctct ttctatatat aggcagcatg ccttatttct tctaccaact aacctaatta 360
gctaactaat gtaactaggt atcta 385

<210>	16625
<211>	424
<212>	DNA
<213>	Glycine max

tgcttgcata	caaaagaaga	caatccacac	caacatttat	aagaaaaaga	agcctctgtc	60
ttcctcttca	ccttacccca	taaagtaaag	atgatgccct	atttcgagga	ccatttttca	120
ttgcttgaca	tatccttttt	ttttactgta	cggtcgcaaa	aaattactgc	acattataga	180
atatcagtgt	catttgtacc	aatcaaatat	agtttagttc	aatgtgaact	actaaataaa	240
gatcaaaagg	cacaccttct	ctaactatgc	cgagtgtggt	agtttttttag	tgatcatacg	300
tgaatatatt	catatcttta	gtgttaaadc	ataatactta	taatgtctat	atttttctca	360
cttttatcat	tttcttatta	atgagctcag	atcccataag	ttcatcggtc	tggatatttc	420
aatg						424

ttgcttctaa	actttataca	agaatgaagc	tctgatacca	cttgttagac	aagtggcctc	60
aaatatctta	agaagggggg	gggggttgaa	ttcagatatt	ccaaactact	tccccaatta	120
aaaatctatt	acacttttta	atcaagttat	gaattccctt	aatgataatc	ttcttaaata	180
ttaattcaaa	taaaacaatt	tgaatatgaa	tataaaacaa	taatataata	aggacgatta	240
atggaagcga	gaatgcaaac	tcggttttat	actgggttcg	ccacaccctt	gtgcctacgt	300
ccagtcccca	agcaaccgcg	ttgagagttc	cactatcttg	tacattgctt	ttacaagttc	360
taaacacaca	atgacaatcc	ttcca				385

<210> 16627
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 16627

tatgcgcata tttccttaca aacgttctct tgtttaagac atttaaccga aaaaaaatgc 60
 acccatatac aatcaaggga gcttcgttac ctagattatt tacacgtacc tccaaggtgt 120
 atttggtact tacatcacac acatctcctt ggctaaattc acatacatgc atactcaaag 180
 cattttgggg taccaaaaat tgcacacgtg cacatcttag cattttcta acctatacat 240
 acgcaaactt catgatgaat cttgactatc tacacaataa ggtgctacat ttcattgctt 300
 ttttttcaag tttttgctgc cttaaagccgc atgcaaattc aagcatatct tcctttgctg 360
 actaaaattg aattcaaatt aaaagggtata tcttttgtaa tatgttttct tcacataaca 420
 tgcaac 426

<210> 16628
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 16628

ttgtttggtg catatgatta tacacttcag cttaagggtg aatattagaa ataacgtaat 60
 tataataaca atgtaaatag gacagattat ttgttatgta attatgttaa gggaaactat 120
 atattcttgt atttatgact cttaatatata atatatgctc tgggtgtgtaa ttttacacag 180
 aattcatcac atgccatttt ctctcgttct caaacactct ttttaggttc atttatgggg 240
 aggaataact atgttcgttt tgagtgttcc ctattttcct gataattgtt tcaatgtgca 300
 gtcaacttct atgatggaga gtcttatgaa gcttgccaag tcaaactg ataaaaattt 360
 agagacttgt ggaatccttg ctggtttgc t 392

<210> 16629
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16629

ntnttttctc tattttttgt gagctactta gttgatattg ttttgttgat tcaactatcac 60
 atgaattatg aagccaggaa cattctatgc cttgccacaa agtcctcagc tatttaagca 120
 aatgctaattg gtagctgggtt ttgacaaata ttatcagatt gcaaggtaat attttcgtct 180
 tatgtttgag tctttatttg tagcttggct tcttttacga gaatatgtta ttgtccccta 240
 tgtagtgctt tttccttttt ctcttttaag ttttttcctt atattaatat gcattttgtt 300
 taagtgactt tcataaacta agaatataga atgcttgttt ttgtaagcta tactaaactt 360
 aaaattgaaa caattatgat gcaagtgact tttctttttg gataaaatgc a 411

<210> 16630
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 16630

ttgctttcaa aattgcccc a tgtgtggcat ctcttgtcaa tgtcaggatt tacacgtgat 60
 tctcctcaaa tttcagccag cttgcatcaa ttagacctg caccttacgc ttcaagcccc 120
 tacaatgctc aatggaatgc cccggggctt ctccatgaca agcaccacgt tgcgttcgag 180
 tcgtattctc ggagaaatgg aggttgatga accttgggta gggttatggc taccattgaa 240
 ttatcaagta gatatgggag caactcagca taggacactg gaattggggg gaattctaag 300
 gctttctcgt tgcaaaattc atttcttcgg tgggtgtttt gtttacgcta aagggtggtg 360
 ttgtcattgg aagtgcg 377

<210> 16631
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 16631

tgaaatgagg aagtgtggaa gggtgagact tctttctttt attcgttgac cacagagtgg 60
 tacctggaga tatgtcgcgg gggtaggag accttgggga cgtcagggtg ggtgctattg 120
 cccaaaacca agcttgacca atcccgaccc aaccgggca tagtcagtca gtgagaacct 180
 gtgatgtacc taaacaggcg agtcctggc agtcaaccga taaaagaaca aagaccacaa 240
 agcaaagagg cttgtgtggg ggctggccag ctgtgaatct tgagtgatat ctgtgatatg 300

gcctctggta atcgattacc aaggggtgggt aatcgattac aaggcttaaa agtgaaggca 360
 ggaagctaag atggcctctg gtaatcgatt accaaggag tgtaatcgat taccaggctt 420
 taaaac 426

<210> 16632
 <211> 344
 <212> DNA
 <213> Glycine max

<400> 16632
 tagtttttct ttcacaatca atttgtctac taactaacia ttctactgtg agttcacact 60
 cttgtttctt cttctttcaa catgcatatt cgttcaaatt catgaataga aacacaaatc 120
 tcatcttcaa catgcattca atttaaagca aggcatacat ccatttttca aaataaataa 180
 actattttac tgcaacacca acaaaagtta agttaaaactg ttccagatgc ttcagaatga 240
 gcaactacac tactcatgca caaaactaac aagaagtaaa taatgtacta taaccataat 300
 tatactaata gatcaaaaag cacaaaaaaa tcaataggaa ttta 344

<210> 16633
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16633
 tgaatctctn tcaacttctt cttcttcttc ttgtatcaa aagttttctg aagttttctg 60
 gttttccaaa cttgaaaac ttgtgctatt catcttttca ttctcttctc ctttgccaa 120
 aaagaattcg ccaaggacta accgcctgaa ttcttggtgt gtctctcttc tcctttttcc 180
 aaaagaacaa aggactaacc gcctgaattc ttttgtgtct cccttatccc ttgtcaaaga 240
 attcaaaacg acacagtctg agaattcttt tgattcttcc cattccctaa tacaaaagtg 300
 ttcaaaggac tagccgcttg agaattcttt tgtatcccca ttcacaaagt atcaaagggt 360
 taaccgcctg agacctgtgt cttaacacat tggagggtac atcctttgtg gtacaagtag 420

<210> 16634
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 16634

tagctttgga gtttccaagt gccaatcgt cctcttcttt agtccagtct tcttctggct 60
tcaattcatc agtgggcttt ccttctgtgt ccagcatctt gggatgttcc cagcctttga 120
tgacagcttt ccaggttctg ctatccagtg atttgaggaa ggccaccatt attgctttcc 180
agtattcata gttgcttcca tcaagaattg gtggtctgtt cactggctct ccttctttct 240
ccatgttcat cagaatttat ctcccagat ctactctgt gatttcgagt gttggctctg 300
ataccaattg aaattctgat accaggggac agatgtcgta caggatgtca cgacatcacg 360
cttcagaaca tgcagattgt atgtgt 386

<210> 16635

<211> 415

<212> DNA

<213> Glycine max

<400> 16635

tggagggggt gatggggacc cgggtgctaag atgaactagg ttaagggcta tgtgggagtg 60
cgtgagctca gttgaaaggt gggcaactgg ggatgggtgtg tttatgtttg acttgtggaa 120
ctgggagagt tgatttgcac catcgcccgga tcgccaccta gtaccacata tgacgggtgc 180
cccataatcc aacaagcttg atgtgagaaa gcgtggaaga gttagtcttc ctacttttgt 240
ttgttgacca caaagtggta cctggagata tgtcgcgggg gtcaggagac cttggggacg 300
tcaggtgggg tgctatttcc caaaaccaat cttgaccaat cccgacccaa cccggccata 360
gtcagtcagt gagaaccttt gacgtaccta aacaggcgag ctctggcaa tcaac 415

<210> 16636

<211> 391

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16636

agctttttcc tcgttgaag gcaacgacaa agggatctca gatagtttca ggcaagcttg 60
ccaagcgggt ctatggaccc ttccaagtca tagaatgcat tgggctcgtt gcatataagt 120
tacaattgcc ataggaagtt aaaatacacc ccgtattcca ctattccaag ctgaagtctt 180

tttgcggttc accagaaaat atggcgggaa ttgcctggca caaggagtta ctcaacgacc 240
aaccctcgt gtttccatta ggtatcttgg attaccgtag agcatccacc gaggatccct 300
gngagggtgct agtgcaatgg aatggctctct cacctgatga tacctagtgg gaggattgga 360
atcagctgtg tgaaaactac caccttgagg a 391

<210> 16637
<211> 417
<212> DNA
<213> Glycine max

<400> 16637
tgatgagaaa taaatgtttt gcttgggtaca acatctatgt tatttaatga gatcattaca 60
ttatttgtgt cttaatagga agtgaaggac atacattaga ggaagccaaa tctatcaatc 120
tacccttgag tgcattgggg aagtgtatta acgcacttgc agagaatagt gcacatgtgc 180
catttcgtga ctacagcttac tagattgcta cgtgattcat ttggaggtaa gattcagtga 240
gtataataat tcatattttg tctttgttca tttatacaaa gcagtaagat ttggcaaaat 300
actcttecta actttcagga cgtgagacag atgaagtcga gcccataccg gatgctctgc 360
ctaactctga acagtaagct gcctaattgtg tctttgatgc attttagaag tctaate 417

<210> 16638
<211> 393
<212> DNA
<213> Glycine max

<400> 16638
agcttgttca aatcaagtca ctcccgcat tttatctctag catgcattgt atgttgggtct 60
cgtcctttgt cacgggaagc cggaagggtcc atatcacctt cttaattgta cacatggggc 120
actgcgcccc caaatgcgca agtaagaaga gataattttc cgggctctcg tgtccgtaaa 180
atgcattcat atcatgcac gcataagcat ctcttcataa catcataatg gacatacct 240
gcatttgtcc gttatcatat tccggcctca cattttgcat gagtcatggc atcatcatgc 300
atatgcgttc aacaaacttt ttgatctaca aaattgcata ccatttgttt tcatgtttgt 360
tcatccttgc gttttcctct acaaaacaaa aac 393

<210> 16639

<211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16639

taagaatggc cttattgttt atgccttgac ggcttgtgct atttcctgaa tttccggtgt 60
 tacgaatatg acatgatgtc gtttacgggg tattcaagtt cgtgatataa taccgcaga 120
 aagcttgaag gaccaagctt tcatttgtcc tggttctcat eactcgatca tctggcctgt 180
 agaagatcca agtccgagaa gcaaagcaaa gttggtagcc actgctaagt tggttcactt 240
 tgacaaaagc tagaagttgc agtatgggtt cccacccacc tgttgtaaatt tgagcccgta 300
 ggggtacaaaa tcaaggtcat ggatgtccgt gtggctatatt ttctcattat tttttacaaa 360
 ttttttttac tcattgtccc taggttattg gttttttttt ttttttcatt ntatattttt 420
 aaatc 425

<210> 16640
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 16640

agatatttaa attaaaaaag ccacttttaa attttgagac tttttttggt acatgaaatt 60
 ttgagactaa aaataacttt aaatttaaag gattaaaaaa tcatttttaa atttgagaa 120
 gaatattttt tatctaagtt tgaagaacca aaaagacatt taagtcacaa aattaaatac 180
 tttgacctga catataaata tatgataaca tggacttcat tagtcatatt aacaacaact 240
 acaacattgt ttatgatgag gagttaaaag gagctatttc caaattttgg agaagaaaaa 300
 atcatttttt tttaatttga ggaacaaaaa gctaacttgt tccaaattta agtaactata 360
 attatattta agaaaaaaa cactaaaaga tttgaa 396

<210> 16641
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 16641

tcagacaatg tgtggaacca gtcacgttg gtgtttgttc tgccgaagag gacggtggcg 60

tctacggtgg ctgttgattt gcttcgagct gtgtcatcct ttgcaggaga tcatctatct 120
 tcgtgttcat tgctagctga gatgctgata gttttgcaat ggcgtcttcc aatcgggtctg 180
 tggaaccct agagcgtgta gcttcgccca ttgatgctca atgaaagcac caatgttatg 240
 acttgactt cgaggaccaa gggcctcggg tagtagagag aagaaaggaa ggagagaaaa 300
 gaaatcgtgt ttagttgctt gttatttcat gtatgaacat ttacaagggtt ttatacttcc 360
 tgcagttgag atctaacaga attagctaac tacaatcaca ttctaactga atctagaata 420
 ttccagat 428

<210> 16642
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 16642
 agcttcatga aaaagatggc ctcagcaaatt tccttatttc cagaaggaaa ttctatcaac 60
 agacctccaa tctttaatgg agagggttac cactactgga aaacccgaat gcaaattttt 120
 atcgaggcaa tagatctaaa tatctgggaa gccatagaaa tagggcctta tatacccacc 180
 acagtagaaa gagtttcaat agatggtagt tcatcaagtg aaagcataac catagaaaaa 240
 cctagagata gatggtctga agaggataga aaacgagtac aatacaacct aaaagccaaa 300
 aacataataa catctgccct aggaatgggt gaatatattca gagtttcaaa ttgtaagagt 360
 gctaaggaaa tgtgggacac tcttcgatta acacatg 397

<210> 16643
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 16643
 tgtgggatgg ctttgaagat tgatatcaat aaggcctttg atagggttga ttggaattat 60
 ttgttggttg ttatgatcaa gatgtggttt catcagaaat ggggtggattc gatgaaactt 120
 tgccttgggt ctacgcaatt ctcagtaatg gttaatgagg attctttggg acctatttct 180
 cctaggagag ggctaaggca gggtgaccaa ttgtcacctt acctgttcat tatttgcact 240
 gaagggtcttt cttcccttct aaaaaaatct gagaggagtg gtgagttaca tggatatcaag 300

gtgtgtaaag gagtcctgt cctctcacac cttttacttg ttgatgattg tttttgtttt 360
gcagggtaaa tgatattgag catattgctt tgaaagctat tctagattcc tatggtgaaa 420
attctg 426

<210> 16644
<211> 384
<212> DNA
<213> Glycine max

<400> 16644
agcttttaaaa gattggctaa gattttgtta aaacataagc acttagacaa tgaaggaaaag 60
ctggagttgc tgcacatgat gtccaacgtt atgtcaaaga ataagatcgg gctgcacaat 120
gcataagtca agataaaatg tcaaataag cattgaagct gcaggatcca cgatgtcgga 180
tacgatgtcc tgacatcttg cccgaaaata ctggacacat gaatctgtta tatctttaac 240
agattattgt gcagtttagca agagataaga agatctatct ttatgaacga attaaaagat 300
aattaaagtt cgaatttcaa agtagaagag ttcgttcagg gattaaagat tatagataaa 360
aactaaaaga tcaaactgta tctt 384

<210> 16645
<211> 430
<212> DNA
<213> Glycine max

<400> 16645
tcctcgaggc catttcctgc gaaggcaaac atttggttaag ttagttttac caagaaatgc 60
tactcttaaa acaaaatggc gtacaacctc ctccaataaa cacaaatata aatgtaaatt 120
tagagcaaac tcatgcacat acttccttac gagtattcac tcgcacaaga tattcttcta 180
actaagaaaa atgcacccat gcacaatcaa agcaccttcg ttaccagat catttatatg 240
tacttccaag gtgtatttgc tacctacatc acatgaactt ccttggctaa atttacatgc 300
acgcatactc aaagcatctt ggctacaaa aattgcagac atgcacattc tgggtatttct 360
aatacctatg catatacaaa ctttgtgatg aatcttggct atctacacaa taagggtgcta 420
catttcatgc 430

<210> 16646
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 16646

gacaacaata gcccaagaga atggattttc aagaatggat tcacacatag ttcatagaat 60
 caagtatatc atagatagat tcacagaatc acagatgaag attggatttc atagattcaa 120
 cgagatgatg atattcaaga attcagagtg aagataatca acgaagactt cacaagggaa 180
 gtattgaaaa gatttttcaa aaaacaaact ctcatctcac acaagtctat aacattaatc 240
 taaactcgct caaactgggtt ttacgatgaa aactccatcg aatcaaaatt tgactcctca 300
 acaccaatt taccctagaa atggctcttg ctttcacttt ggctactcat ctctctcctt 360

<210> 16647
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 16647

tttggctttt aaatgccatt aagagggttca actaccccat tcattcttggg cctgcatggg 60
 ggggaattat ggcggtggaa tcttgaaacc tcacacaatt cttttatcat tttggtgggc 120
 aaaatggtgg cattatttgg ataattcttct tggggcaccc ataccggcag aatatctctt 180
 tcttaatgaa cttgaccacc acattcctt tgtacaactg gcatatgaag cagcttcaac 240
 ccatttggtg aagtaaccga tctgcaccaa aatgaagcga cgtctattcg gagcccttgg 300
 ctcaataggc ccaatcacat ctattcccca cat 333

<210> 16648
 <211> 144
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16648

tgtttgttct tttagcgctc tagttatgaa agactagctt gcgtagnaag gggatcccat 60
 ccttcgaccc cgaaagcctg aagggtccgta ctcccttctt aatatggcac atggggcact 120
 gctccccggg acgcgcatgt ccca 144

<210> 16649
 <211> 82
 <212> DNA
 <213> Glycine max

<400> 16649

tctaaggtag aacaacaatt gaaaagaaag agtgtttttg tgaggagttc atctaactct 60
 cactgtcttg gttgcaagga cc 82

<210> 16650
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 16650

tgcttgaaac attgaccacc caagagcgag gtctctctga aagatatcaa cactctgcaa 60
 acacattaca ttaggaagca tggcataaag ccctacatga acaatattca acaacctagc 120
 taagcctcat aaaggggtgcg aaaacagaat ctcgatgaaa ccttgtttgc atcgaaact 180
 attattagcc ttggcgacaa tgtgaacctt taaagggtag gatatgaata tgtaaccccc 240
 atagatagga gaataatcaa agagctagtt aagagctgag gagagcagga ggtaacaggg 300
 agatttaact ctttcatgtt agcgccatca gtactcataa catttcatac aaggtagtga 360
 atctacaaa acctttcatc ttatcgccga tt 392

<210> 16651
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 16651

tatctgctgg ccacaatata tccccgaagc aactgggtatt ggaaaggact gggccccctg 60
 gctataacct tgctcttgct gcataccac caccatcacc agcctataga tcacatcaag 120
 catggcatag acagtcctca ttcacaaact ggaaatgatt caatagaata gacatgggcc 180
 agatactctc atgcatgaca acgccactac tcgaactttg gccctaaggt gaggccaaat 240
 gtgttgacaa cctccagctc aattaattat ctatgaaggc ccagtgattc ttgctatgat 300
 gacctcaagt atccttccaa cattggcgga accattgacg ctgccaaactc gtaacgaggg 360

tgacacaccc attatggctt catgaagcaa gagcccttga aacatggttc ta

412

<210> 16652
<211> 271
<212> DNA
<213> Glycine max

<400> 16652

ctgcttcttt ttttgagtgg ctaactaatg aacgatgtgg agagggcttg tttatacaca 60
accctgccca ttcctaccgt aatgcatacc actcctggat aacgcgattg cgaagtccta 120
tcggggccata aatctcgcta tggagtagaa ccttctttaa acgatcttag gctcctgaca 180
cttaagacgt agctgaatgg atgcaccgta gcattgagac cataggcgct gaaatattgg 240
ataccttggt cagctacgat agaaactgct a 271

<210> 16653
<211> 377
<212> DNA
<213> Glycine max

<400> 16653

tgatgaaagc atagattggt tgttatgac aagatgtggt ttcacagaa atgggtggat 60
tcgatgaaac tctgcctaga caataatatg agtaatagag aacaaaatat tagtcgagtg 120
aaacgccgtt cacaaaagcg atagataggg aaacagcgaa agggtaggca atactttgtg 180
gttaggataa tgaggggtgg tgtagaagct ttggagaaca acagctgtgg tgtgttgagg 240
aataattaat tactcataaa acacacactt gatttccgcc caacaaattt attgatgatt 300
ggtagacaaa taactggaag ctcaatcttc atttatggcc aattatagct tgctacagct 360
gagtttgtga caggatc 377

<210> 16654
<211> 252
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16654

agctttacag cagatttttag taatgaccca ctaacttaga attaaaataa cttaatgccca 60
ttaatctagg gaattaaaa aacttaatgg ctgagtgtaa ctgaaattgt ggcaacccaaa 120

agtcaccccc aacagccaac aagtcagcca ccatttggtc tcccaaaagg ctgatgccta 180
 ggttgccaat tggggccctta ttacaacttg aactaaacct actaaagccc tttcaagnca 240
 ttcacccaaa ac 252

<210> 16655
 <211> 287
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16655

tatagaaact caagcttctc gagaaattcg aatggttata acgttttcac tcaatangtc 60
 ctgatgcggc ggacatcaac tcatgtagac gctcgaagat tgaacaacgc acgctctcga 120
 gaaactcgaa tggtcataac atttcgcaca catgtccaaa tctgtgacct aacatttcta 180
 gacactccgc actggctgga taaagatctt gtcatatcca aactgcagta acatcgcgcg 240
 cgccatgcct atataagctc gcgagcaacg gcactccccc ccaacat 287

<210> 16656
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 16656

agcttcaaga aaaagatggc ctcagcaa at tcttatttc cagaagggaa ttctatcaat 60
 agacctcaa tctttaatgg agagggccac cactactgga aaaccggaat gcacattttt 120
 atcgaggcaa tagatctaaa tatctgtgaa gccattgaca tagggcctta tatacccacc 180
 acagtacaaa gagtttcaat agatggtagt tcatcaagtg aaagcataac catagaaaaa 240
 cctagagaca gacgggtctga agaggataga aaacgagtac aatacaacct ataagccaaa 300
 aacataatat catctgccct aggaatggat gtaatatcca gagcttcaaa ttgcgagagt 360
 gctaaggaaa tgtgggacac tc 382

<210> 16657
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 16657

tgtagggtta aagtctcacg attgtgacgt gtttattcaa caattgttag tcgtggctat 60
acgagacatc ttgccaaaca aagtcaggtt agcgataact cgcttgcgct ttttcttcca 120
tgctatatgt agcaaagcca ttgatccagt caagtttgat gagttggaaa atgaggccgc 180
aattatactg tgccagttgg agatgtatct tccccctgct ttctttgaca tcatgattta 240
cttgattgtg catctggtca gagaaatcaa atgttgtggt cctgtttatc tacaatggat 300
gtacccggtt gagcgatata tgaagatctt aaaagggtat acaaagaatc tatatcatcc 360
agaagcatct attgtagaga ggcacatt 388

<210> 16658

<211> 210

<212> DNA

<213> Glycine max

<400> 16658

agtctgtggt ttcagcataa gattagcaag atgatgcaac caattttaag gaaaccctcc 60
gaagtcctaa cggtttcact gttgaagcaa gtaaaacaaa atatgccaga aataaatgag 120
cgaagcagct ggaaaatcta ctagtggatt tggcattttc tccaaagagt gtcactata 180
gttcagtcca ctacagaagt tatgcacatc 210

<210> 16659

<211> 253

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16659

tttcagagc tacttggatg agcatatatt ttttctttc tcactatatt cttttttaat 60
atatatgaac cagcaagtca gaaacctggt aagaattaag cttctgtaat gcattactaa 120
ccaattcttt taacagaacg ttctttctgt ataaaatgct ccaacttcaa taactaagct 180
agaaccaatt tgatagtccc actacaatat ttgtggacga aacagcgaca caactgcgcc 240
cattcatgca agt 253

<210> 16660

<211> 395

<212> DNA
 <213> Glycine max
 <400> 16660

agctttgagc aaattcaaac gacaataacc ttttactcgg atgtctgatt gagtcccgtg 60
 atatatcgag acgctcaaaa ttgaatgttg aacctctgag caaattcaaa cgacaataac 120
 tttttactcg gatgtctgat tgagttccgt catatatcga gacgctcgaa attgaatgtt 180
 gaagctctga gccaatcaaa acgacaataa ctttttactc ggatgtctga ttgagtcccg 240
 tagtatatcg agacgctcaa aattgaatgt tcaacctatg agccaattca aacgacaata 300
 actttttact cggatgtctg attgagtccc ataatatatc gagaggctcg aaattgaatg 360
 ttgaacctct gaaccaattc aaaagacaat atctt 395

<210> 16661
 <211> 429
 <212> DNA
 <213> Glycine max
 <400> 16661

taaacattca atttcgagcg tctcgatata ttacgggtct caatcagaca tccgagtaaa 60
 aattttattgt cgtttgaatt ggctcagagg ttcaacattc aatttcgagc gtctcgatat 120
 attacgggac tcaataagac atccgagtaa aaagttattg tcgtttgaat tggctcagag 180
 ctttaacatt caatttcgag cgtctcgata tattacggga ctcaatcaga catccgagta 240
 aaaagatatt gtcttttgaa ttggctcaga ggttcaacat tcaatttcga gcgtctcgat 300
 atattatggg actcaatcag acatccgagt aaaaagttaa tgccgtttga attggctcag 360
 aggttcaaaa ttgaatttcg agcgtctcga tatattacgg gactcaatca gacatccgag 420
 taaaaagtt 429

<210> 16662
 <211> 382
 <212> DNA
 <213> Glycine max
 <400> 16662

agcttggtttt tggtttaaac atgatttatg acttgtagga tccaatttga gaaaaattgg 60
 atgtgggcaa gatggattta ggactttag gatccaattt atgcagaaaa atgttggtga 120

attgtgcagc agatTTTTga ttgtgtgcag aaaaatgctt gtgcattgct ggTTTTatgg 180
gaaaaggtag tacatattgg gttctagaca ttttctagca gatcccaacg gtcaagatgt 240
atacttatgt actaggaacc tccagtaaaa ttttcaagtc aatccaatgg ttaacgaatc 300
ggaatgaaga aaatgttact gggatatatg agtaatgaaa gctgtaatac gtgaatgtgt 360
tttgggcaga gatttctgtc tc 382

<210> 16663
<211> 423
<212> DNA
<213> Glycine max

<400> 16663
tgtaaggtta aagtctcacg attgtcatgt gtcctgcta caattgttag ccgtggctat 60
acgagacatc ttgcaaaca aagtcagggt cacaataact cgtctgtgct ttttcttcca 120
tgctatatgt agcaaagtga ttgatccagt aatgtttgat gagttggaaa atgaggccgc 180
aattatactg tgccagttgg agatgtatTT tccccctgct ttctttgaca tcatgattca 240
cttgattgtg catctgggtc gagaaatcaa atgttgccgt cctgtttatc tacgggtggat 300
gtacccgatt gagcgataca tgaagatctt aaaatggat acaaagaatc tatatcgctc 360
ggaagcatct attgttgaga ggtacattgc agaagaagcc attgaatttt gttcagaata 420
ctt 423

<210> 16664
<211> 392
<212> DNA
<213> Glycine max

<400> 16664
agcttcta atgtatgaaga tgtgtattgc ctctaaatga gctacagggt cataagtttc 60
tttgtagtct attccttctt gttgagagta ttcttttagca actaaccttg ctttgttttt 120
cacaaccttt caattttcat tcagtttggt ttgaaagact catttctctc caatagcttt 180
ctttcttttt ggaaattcga ctgactttca aacatcattc ctctgaaact gatcaagcta 240
cttttgcatt gctttaacct aattgtcatc ctgcattaca tcatcaatgt gtttgggttt 300
catttcagaa atcaatgcaa taggtcctta tgttctgagt gatgatcttg tttgaacatg 360

atcaactaga tcaccaataa tttgactttt tg

392

<210> 16665
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16665

tgtaggatta tggggtagcc gtcatatgtg tactatgtgg cgttcgggag atggtgcaag 60
tcgactctcc acatccacaa atcacacata aatccaccat cctcagttgc ccaccttcca 120
ctgagctcac gtactccac gtagccctt atcctcgttc ctctcaacac cgggttccca 180
tcaatccctc caagcttcca caacatccaa gaaattcaac atccaaacat catgaactat 240
ccaaaaccaa gaaaacaggg cagaggcaga aaactctgcc caaaacacat tccaatacca 300
caactttcct tactcaaata cccagtaaca tcctcttcgt ttcggttcat taactgtttg 360
atcgattcga gaatntttaa gccttgtaat cgattacaca cccttggtaa tcgattgcca 420
gaggtcatat 430

<210> 16666
<211> 379
<212> DNA
<213> Glycine max

<400> 16666

agcttggttc aaagaggtcc aagaaggata aggcggccga agggactagt tccgctcctg 60
agtatgacag tcaccgcttt aagagcgctg tacaccagta gcgcttcgag gccatcaagg 120
gatggtcgtt tcgacgggag cgacgcgtcc aactcagga cgacgagtat actgatttcc 180
aggaggagat agggcaccgg cgggtggacat cactgggttac ccccatggcc aagttcgatc 240
cagaaatagt ccttgagtta tatgccaatg cttggccaac agaggatggc gtgcgtgaca 300
tgaggctcctg cgtaaggggt cagtggatcc cgttcgatgc cgacgctatc ggccagctcc 360
taagatatcc tgtggtggt 379

<210> 16667
<211> 429
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16667

tgccgccacg gagttttccg actatgctct tgtgtgtgtg gaacaagcta caaaaagaga 60
gagcaagaat tgtgggtttga aagaacaagg gtgatgatga aaggaaggaa agaactcactc 120
tttccagcga gggcaacaca caaagggttga gaaagtcctt tgatacagcc aagggtgttct 180
tgaatcactc aagaatttag gagaatcact ctactaaga taaaagagat aaactctaata 240
tttctgaata aaactcaact tgtgttttatt gataaaatgg ttcagcttat atagaagctt 300
tacagcagat tttagtaatg acccactaac ctagaattaa aataacttaa tgccattaac 360
ctagggaatt aaaaaaaact taatggctga gtgtaactga nattgtggca accaaaagtc 420
acccccaac 429

<210> 16668

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16668

agcttgtata acggctggac atgatatatg tcagggtggt ggtttatcca gcgggttcag 60
gataaaggaa tatcccatat tatttccatg acacgcgtgc aacaatgatg attcataaat 120
tttatgcaaa acttgtcatg catgcaccta tgtggacact caagcatcaa gttctgtggt 180
catgtgacac tanggtcaa gattcatttt tcctatttaa gtcaatccag tgtttccaaa 240
acatgtctctt ttatcaattc atgcattcat ccgagtccat tttgggtggt cgaggaaaatt 300
ttacagcatt cacccttcag gtgtatacat attttttcaa caaacacttc tgtgtttgat 360
cagcgaatct ttttaaagaa agagttgga 389

<210> 16669

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16669

tgctcttggt ttagacatga ttggtacatg atttgttact tgtaggattc aatttgggca 60

aaattggatg agggaaagag tggttttcga aatctgcact ttatgcagaa ttttgctgtt 120
gaaatgtgca gcagaaattt gcataagtgc agaaaaatac tatgtatttg ctggttgtgg 180
aaagagtagt acagaatgag ttcttgatgt ttgctagtag atcccaacgg tcaaaatgta 240
gacttatgta ctagagactt ccagtaaaat tttcgagtcg atccaacggt taacggattg 300
gaacgaagga aatgttactg aggtcttta gtgagaaaaa gctgtgattn tggtttgagt 360
tttgggcaga gttntctgcc tttgccctgt tttgcttggg ttgttagttt gtgatgattt 420
ggat 424

<210> 16670
<211> 327
<212> DNA
<213> Glycine max

<400> 16670
atcttacgct ccttcaactg cacaagactc ttaatatttg aagagtatac atgtggaacc 60
ttcacctgac gaagacactg acagaaactc atcttaccct ttttggacaa agtatgacaa 120
gctgctggca ggttgattgt attcccatca gaccttggat gcaactgtga tcgtatcccc 180
atcttagata catcttgacg gagattcaat ccatacttca tcttgccttg aatgtcaaag 240
agcattccag tcaactctgtc acgtacattt ttcttctgat gcatactatc cgaccaatgc 300
cttacgctta gatgacacca tgactgc 327

<210> 16671
<211> 393
<212> DNA
<213> Glycine max

<400> 16671
ctgccgtcca gctcttacat acgagcagag gtgcttcctc taaacacatc aactcttagg 60
acgaatatgt ggtaggacct acttagagca ttcttgcgac tagtcacgtg tttttactaa 120
acgcaccctt gtatatTTTT aaggaaactc tccacgcaac ctacgagact atgcgaatct 180
ctgaacgcta actattattc tatatgtatg acacataatg cattgcagag aactgatgaa 240
cgcattctta gctcgctaag aagatcaatg ggagctcact taattgtgcc actgctaccg 300
ctttctaata atctgtccat atcatgatat tccggattgt gctcaatcat ctatcgttag 360

agtcctgaga tctctttgct ctcatatatt gcg

393

<210> 16672
<211> 276
<212> DNA
<213> Glycine max

<400> 16672

tgcttctaca tctataggcg gactgccctt gattgttaac taaggattca tggcgatcct 60
ctaggacgag gatggaatga tottaacagc gcccttatga agaggacat tccctcctac 120
tatgaaaggg aacttactga caacctccaa gggcttagat aaggacatat gagtgcgaag 180
aatatagacc acaaatggga ctactctttt tacaagctgg acttacggag gacacaagcc 240
ttcttcattt gatgagctaa atcttgcact gtcac 276

<210> 16673
<211> 388
<212> DNA
<213> Glycine max

<400> 16673

tgtttctact tatgtggcag ggcgggctgc cttcactttc ttgtcccaa cagagcttt 60
gaccaccgct ctttcttccc gcgatgcttc tctttatata cacctgagtg ggcttatagc 120
ctaaaccata cttgccacga tttcctttgg catttatcaa gctagttatg ctgccgttgt 180
ctttgcctaa acccattccg gggtcgtaac cgttcccaa cataactcgg gccatcatta 240
ctgctgcaac ggacaggcaa ggctgcctag agaatgagta cacggaggaa atgctgacca 300
cctcaaaaga ctggatagcg gtatctaacg attcttctgc ggcttcaca taatgcatag 360
atgatgggca gctcaccaag atgtcttc 388

<210> 16674
<211> 427
<212> DNA
<213> Glycine max

<400> 16674

tgccgcata aaatcactaa aaagagattc taaggtttta tacctcagat cttctcacca 60
agtaaaatgg atcactttaa ggtccaacgc cttaaaagga ccaccttcca agtaaaaaga 120

[illegible]

<400>	16675
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<210>	16676
<211>	425
<212>	DNA
<213>	Glycine max

<400>	16676
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6997

gggtgatgat attgggtact acgaacaact cttctagggt agcaaaggca taatctttac 420
ctcct 425

<210> 16677
<211> 372
<212> DNA
<213> Glycine max

<400> 16677
tgcttttgag aaattcaaatt ggtcataact tttcacacgg atgtagatt aaggcgcatt 60
gcatatagag acgctcgaaa atgaacaacg gaagctctcg agaaattcaa atggtcataa 120
cttttcacac tgacgtccga ttcaggctta taatatattg atatgctcaa aaataaacat 180
cggaagttct agagatattc aaatgggtcat aatttttcac atggatgtcc gattccggcg 240
cataatatgt cgagaggctc aaaattgaac atcggaaggt cttgagaaat tcaaattgtgc 300
ataacttttc acacgaatgt ccgattaagg cttataatat atcgatacgc tcgaaattaa 360
acaacggaac tc 372

<210> 16678
<211> 293
<212> DNA
<213> Glycine max

<400> 16678
tcgctagaat cggacctccg tgtgaagaga tacgagcgtt ttgttttgc cagagctacc 60
gctggagagt ttccaacgtc taagacataa gaggtcccg attcggacat cctggtgagg 120
agatatgagc gttaggatat gaccatagga atcgctggag agcttcagc gtatagatat 180
gagctacccc tgaatcgaac ctccttgta caagatctga ccattaggat atgaccagag 240
caatctgtga agaatttcca atgttactat atgagctgcg ccacatattg gac 293

<210> 16679
<211> 353
<212> DNA
<213> Glycine max

<400> 16679
tgcttttgat cttttttata aaaagagaag ttctgaaact catcacgttg tctaaaaagg 60

ccttgaagtg gatccaagtg ctctgatcat tcattagcat attcatgttt tgatggcata 120
 ctcaccactg tttgtttctt tatggaactc accataacta aaaaagcgca gaggcacccc 180
 tataacactc gatccagaag taagatggat aacgaagagg gagtgcaaga acagatgaag 240
 gccaacctat cggcctgaaa agatcaaagtg gcttctatca cagaggccat gctaaagctt 300
 caaaciaaact atagaagata atgctactgc ggccgcttcc aatacagcta ggg 353

<210> 16680
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 16680

tgtagggtta aagtctcacg attgtcacgt gtcctatgcaa caattgttag tctgtggctat 60
 acgagacatc ttgccaaaca aagttagggt agccataact cgctgtgtt ttttcttcca 120
 tgctatatgt agcaaagtca ttgatcctgt taagtttgat gagctggaaa atgaggcctc 180
 aattatactg tgccagttgg agatgtatct tccccgtgct ttctttgaca tcatgattca 240
 cttgattgtg catcacgtta gagaaaatcaa atgtttgtgt cctgtttatc tacgggtggat 300
 gtacccgggt gagcgatata tgaagatctt aaaaggggtat acaaagaatc tatatcatcc 360
 agaagcatct attgttgagc ggtacattgt agaagaagcc attgaatttt 410

<210> 16681
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 16681

agctttatag aaacctttgc tttttttgct agacttgaag ctataagaat catgctttcc 60
 tttgctactc ataaaaatat aaagttatct caaatggacg ttaaaagtgc tttcttaaat 120
 ggctttattg aagaggaaat atatgtcaaa caacctcttg ggtttgaaga tcatactctt 180
 ccagaccatg ctttcaaact taaaaaagct ttgtatggtc taaaacagga accacatgct 240
 tgggtgtgaca gactgagttc atttctctta gaaatggttt tattaaagtc aaagtggata 300
 caactctttc taaatgagaa gttggcaaag atttcattat agttcatatg tatgttgatg 360
 atagtatttt tgaagctact aatgaat 387

<210> 16682
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 16682

tgaatgaata taagacacat cttcttcaat cttggtgatt cttgactcca tctaattggaa 60
 gtgcatgtcc acttghtaatt ccaaagtgtc aaacctttca ccaacaaagg tttgaagacc 120
 atcaaacctg tccaaaatct ttgaaagaag agatgaatct tctccatcat gtccttcttc 180
 accaatatgt cgagcaccct ttttcaacca agagccatca tgctcttttt gataacccaaa 240
 ggatgcaatg actgaagcgc ctataaggaa ggatctcttg attggaacat aggggttcaga 300
 atcaagaggg atgttaaagt gttgaaggaa aagagtgtact agatgaggat atggcaaagg 360
 agcattcaat cgcaatgcct tatgcctgcg atatctaaca agaagtgcgc aatcaatttg 420
 t 421

<210> 16683
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 16683

agcttcatga tgaatcaaaa gtgattcaaa gatgttttga tgataacaat gatgacaaca 60
 aaagatgatg acaaagggtga tgaacaatca gctcaagtga atcaaataac atttcaagtg 120
 aatcaagaac aagtcaagag ttcaagaatc aagaagaatt caagactcaa gaagaaagcc 180
 tacaatcaag aatcaagaat caagattcaa gatcttacga atcaagatca agattcaaga 240
 ctcaagattc aagaatgaag aaaagactca atcaagataa gtattaaaaa gttttttcaa 300
 aactttgaat agcacatgag tttttgacaa aacctttacc aaagagtttt tactctctgg 360
 taatcgatta ccatattggt gtaatcgatt accagt 396

<210> 16684
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 16684